# COAL INDIA LIMITED

(A Govt. of India Undertaking)
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## Recruitment of Management Trainees through Computer Based Test (CBT-26)

| | |
|---|---|
| Participant ID | |
| Participant Name | |
| Test Center Name | |
| School Test Date | 24/08/2026 |
| Test Time | 3:00 PM - 6:00 PM |
| Subject | E and T |

Section : **Part 1 General Knowledge Awareness**

| | |
|---|---|
| Q.1 | The 2026 FIFA World Cup saw a new generation of young stars emerge. Which Spanish teenager scored his first World Cup goal and was noted for his "304" celebration? |
| Ans | ✗ A. Yan Diomande |
| | ✗ B. Ibrahim Mbaye |
| | ✓ C. Lamine Yamal |
| | ✗ D. Gilberto Mora |

| | |
|---|---|
| Question ID : | 4410092215521 |
| Option 1 ID : | 4410098718225 |
| Option 2 ID : | 4410098718224 |
| Option 3 ID : | 4410098718223 |
| Option 4 ID : | 4410098718222 |
| Status : | Answered |
| Chosen Option : | B |

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Srijita, SBI PO


Vikram, IBPS PO


Neeti, IBPS PO


Arya, IBPS PO


Hasan, SSC CGL


Palak, SSC CGL


Priti, UP TGT


Aniket, Bihar Stet


Shaurya, NTPC


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Gourav, NTPC


Sanni, NTPC


Abhishek, CTET


Sapna, IBPS Clerk

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| | |
|---|---|
| Q.2 | Which country ratified the UNESCO Global Convention on the Recognition of Qualifications concerning Higher Education on 12 February 2026? |
| Ans | ✗ A. Republic of Korea |
| | ✓ B. Zambia |
| | ✗ C. Uzbekistan |
| | ✗ D. Egypt |

| | |
|---|---|
| Question ID : | 4410092215516 |
| Option 1 ID : | 4410098718205 |
| Option 2 ID : | 4410098718204 |
| Option 3 ID : | 4410098718202 |
| Option 4 ID : | 4410098718203 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.3 | Which Constitutional Amendment Act omitted the provision regarding "splits" (Paragraph 3) by a political party under the Tenth Schedule? |
| Ans | ✓ A. 91st Constitutional Amendment Act, 2003 |
| | ✗ B. 97th Constitutional Amendment Act, 2011 |
| | ✗ C. 92nd Constitutional Amendment Act, 2003 |
| | ✗ D. 86th Constitutional Amendment Act, 2002 |

| | |
|---|---|
| Question ID : | 4410092215676 |
| Option 1 ID : | 4410098718845 |
| Option 2 ID : | 4410098718842 |
| Option 3 ID : | 4410098718843 |
| Option 4 ID : | 4410098718844 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.4 | The Hatti Gold Mines, one of India's oldest gold mining regions, are located in which Indian state? |
| Ans | ✗ A. Andhra Pradesh |
| | ✗ B. Telangana |
| | ✗ C. Maharashtra |
| | ✓ D. Karnataka |

| | |
|---|---|
| Question ID : | 4410092215740 |
| Option 1 ID : | 4410098719099 |
| Option 2 ID : | 4410098719100 |
| Option 3 ID : | 4410098719101 |
| Option 4 ID : | 4410098719098 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.5 | The Indian Council of Medical Research (ICMR) received the Gold Award at the National Awards for e-Governance 2026 for which initiative? |
| Ans | ✗ A. ICMR-DATA |
| | ✗ B. ICMR-HEALTH |
| | ✗ C. ICMR-VIRUS |
| | ✓ D. ICMR-MINDS |

| | |
|---|---|
| Question ID : | 4410092215527 |
| Option 1 ID : | 4410098718249 |
| Option 2 ID : | 4410098718247 |
| Option 3 ID : | 4410098718246 |
| Option 4 ID : | 4410098718248 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.6 | In May 2026, the Indian women's recurve team won a gold medal at which international event? |
| Ans | ✓ A. Archery World Cup Stage 2 |
| | ✗ B. Asian Games 2026 |
| | ✗ C. Commonwealth Games 2026 |
| | ✗ D. World Archery Championships |

| | |
|---|---|
| Question ID : | 4410092215530 |
| Option 1 ID : | 4410098718259 |
| Option 2 ID : | 4410098718258 |
| Option 3 ID : | 4410098718261 |
| Option 4 ID : | 4410098718260 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.7 | Which Union Territory is an archipelago consisting of 36 islands, including 12 atolls, three reefs, five submerged banks, and ten inhabited islands, located near the Malabar Coast of Kerala in the Arabian Sea? |
| Ans | ✓ A. Lakshadweep |
| | ✗ B. Neil Island |
| | ✗ C. Dadra and Nagar Haveli and Daman and Diu |
| | ✗ D. Andaman and Nicobar Islands |

| | |
|---|---|
| Question ID : | 4410092215734 |
| Option 1 ID : | 4410098719076 |
| Option 2 ID : | 4410098719075 |
| Option 3 ID : | 4410098719077 |
| Option 4 ID : | 4410098719074 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.8 | Which canal is one of the world's busiest shipping lanes and provides the shortest maritime route between Europe and the lands around the Indian Ocean and the western Pacific Ocean by connecting the Mediterranean Sea with the Red Sea? |
| Ans | ✔ A. Suez Canal |
| | ✘ B. Corinth Canal |
| | ✘ C. Kiel Canal |
| | ✘ D. Panama Canal |

| | |
|---|---|
| Question ID : | 4410092215743 |
| Option 1 ID : | 4410098719110 |
| Option 2 ID : | 4410098719112 |
| Option 3 ID : | 4410098719113 |
| Option 4 ID : | 4410098719111 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.9 | What is meant by STAR topology in Local Area Network? |
| Ans | ✔ A. Machines are connected to a central hub. |
| | ✘ B. Machines are connected in a circular loop. |
| | ✘ C. All machines are connected in a single line. |
| | ✘ D. Wireless ad-hoc connections. |

| | |
|---|---|
| Question ID : | 4410091024813 |
| Option 1 ID : | 4410094050908 |
| Option 2 ID : | 4410094050909 |
| Option 3 ID : | 4410094050907 |
| Option 4 ID : | 4410094050910 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.10 | Which type of forest is restricted to the heavy rainfall areas of the Western Ghats, the island groups of Lakshadweep, Andaman and Nicobar, the upper parts of Assam, and the Tamil Nadu coast? |
| Ans | ✘ A. Tropical Deciduous Forests |
| | ✔ B. Tropical Evergreen Forests |
| | ✘ C. Thorn Forests and Scrubs |
| | ✘ D. Montane Forests |

| | |
|---|---|
| Question ID : | 4410092215731 |
| Option 1 ID : | 4410098719063 |
| Option 2 ID : | 4410098719062 |
| Option 3 ID : | 4410098719064 |
| Option 4 ID : | 4410098719065 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.11 | India's 45th UNESCO World Heritage property, inscribed in July 2026, is which of the following ancient Buddhist sites? |
| Ans | ✗ A. Ajanta Caves |
| | ✓ B. Sarnath |
| | ✗ C. Sanchi |
| | ✗ D. Nalanda Mahavihara |

| | |
|---|---|
| Question ID : | 4410092215728 |
| Option 1 ID : | 4410098719051 |
| Option 2 ID : | 4410098719050 |
| Option 3 ID : | 4410098719052 |
| Option 4 ID : | 4410098719053 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.12 | The partition of Bengal, which triggered the Swadeshi Movement, was implemented in which year? |
| Ans | ✗ A. 1903 |
| | ✗ B. 1909 |
| | ✓ C. 1905 |
| | ✗ D. 1911 |

| | |
|---|---|
| Question ID : | 4410092215950 |
| Option 1 ID : | 4410098719934 |
| Option 2 ID : | 4410098719936 |
| Option 3 ID : | 4410098719935 |
| Option 4 ID : | 4410098719937 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.13 | Fly ash discharged from thermal power plants contaminates water bodies primarily through which of the following? |
| Ans | ✗ A. Reduction in water temperature |
| | ✗ B. Addition of harmful microorganisms |
| | ✓ C. Leaching of metals |
| | ✗ D. Increase in BOD |

| | |
|---|---|
| Question ID : | 4410092215835 |
| Option 1 ID : | 4410098719480 |
| Option 2 ID : | 4410098719481 |
| Option 3 ID : | 4410098719478 |
| Option 4 ID : | 4410098719479 |
| Status : | Answered |
| Chosen Option : | B |

| Q.14 | Which of the following initiatives is specifically aimed at modernizing India's railway stations under a comprehensive plan? |
|---|---|
| Ans | ✗ A. Kavach Anti-Collision System |
| | ✓ B. Amrit Bharat Station Scheme |
| | ✗ C. Amrit Bharat Trains |
| | ✗ D. Rail Kaushal Vikas Yojana |

| | |
|---|---|
| Question ID : | 4410092216032 |
| Option 1 ID : | 4410098720264 |
| Option 2 ID : | 4410098720263 |
| Option 3 ID : | 4410098720265 |
| Option 4 ID : | 4410098720262 |
| Status : | Answered |
| Chosen Option : | B |

| Q.15 | Which national leader, known as the 'Iron Man of India', is credited with integrating the princely states after independence? |
|---|---|
| Ans | ✗ A. B.R.Ambedkar |
| | ✗ B. Bhulabhai Desai |
| | ✓ C. Sadar Vallabhbhai Patel |
| | ✗ D. Ashfaqulla Khan |

| | |
|---|---|
| Question ID : | 4410092215557 |
| Option 1 ID : | 4410098718369 |
| Option 2 ID : | 4410098718367 |
| Option 3 ID : | 4410098718368 |
| Option 4 ID : | 4410098718366 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.16 | Which Constitutional authority had been empowered to conduct elections to Municipalities under Article 243ZA of the Constitution of India? |
|---|---|
| Ans | ✗ A. District Magistrate |
| | ✗ B. Municipal Chairman |
| | ✓ C. State Election Commission |
| | ✗ D. Election Commission of India |

| | |
|---|---|
| Question ID : | 4410092215666 |
| Option 1 ID : | 4410098718805 |
| Option 2 ID : | 4410098718804 |
| Option 3 ID : | 4410098718803 |
| Option 4 ID : | 4410098718802 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.17 | What is a key benefit of using computers in scientific research? |
|---|---|
| Ans | ✔ A. Collaborating through Internet-based virtual laboratories |
| | ✘ B. Viewing scientific experiments on recorded broadcasts |
| | ✘ C. Developing online marketplaces for scientific tools |
| | ✘ D. Performing lab work without any human presence |

| | |
|---|---|
| Question ID : | 4410092262799 |
| Option 1 ID : | 4410091023793 |
| Option 2 ID : | 4410091023795 |
| Option 3 ID : | 4410091023794 |
| Option 4 ID : | 4410091023792 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.18 | Microsoft's $17.5 billion investment in India, announced in December 2025, is notable for its focus on which key strategic pillar? |
|---|---|
| Ans | ✘ A. Establishing India's first private space launch facility |
| | ✘ B. Manufacturing low-cost smartphones for rural markets |
| | ✘ C. Acquisition of Indian fintech startups for global expansion |
| | ✔ D. Digital sovereignty, AI skilling, and hyperscale infrastructure |

| | |
|---|---|
| Question ID : | 4410092215537 |
| Option 1 ID : | 4410098718286 |
| Option 2 ID : | 4410098718287 |
| Option 3 ID : | 4410098718288 |
| Option 4 ID : | 4410098718289 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.19 | Which of the following was NOT listed as a core pillar (Sutras) of the AI Impact Summit 2026? |
|---|---|
| Ans | ✔ A. Profit |
| | ✘ B. Planet |
| | ✘ C. Progress |
| | ✘ D. People |

| | |
|---|---|
| Question ID : | 4410092215535 |
| Option 1 ID : | 4410098718280 |
| Option 2 ID : | 4410098718279 |
| Option 3 ID : | 4410098718281 |
| Option 4 ID : | 4410098718278 |
| Status : | Not Answered |
| Chosen Option : | -- |

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|---|---|
| Q.20 | Which landmark Supreme Court judgment established the 'Basic Structure Doctrine', holding that Parliament's amending power under Article 368 cannot destroy the Constitution's basic features? |
| Ans | ✔ A. Kesavananda Bharati v. State of Kerala |
| | ✘ B. Minerva Mills v. Union of India |
| | ✘ C. Indira Nehru Gandhi v. Raj Narain |
| | ✘ D. Golaknath v. State of Punjab |

| | |
|---|---|
| Question ID : | 4410092339442 |
| Option 1 ID : | 4410099199865 |
| Option 2 ID : | 4410099199866 |
| Option 3 ID : | 4410099199867 |
| Option 4 ID : | 4410099199864 |
| Status : | Not Answered |
| Chosen Option : | -- |

| | |
|---|---|
| Q.21 | Which ancient text was the famed Sanskrit grammarian Pāṇini known for composing? |
| Ans | ✔ A. Aṣhṭādhyāyi |
| | ✘ B. Indica |
| | ✘ C. Arthashastra |
| | ✘ D. Rajatarangini |

| | |
|---|---|
| Question ID : | 4410092215629 |
| Option 1 ID : | 4410098718654 |
| Option 2 ID : | 4410098718656 |
| Option 3 ID : | 4410098718655 |
| Option 4 ID : | 4410098718657 |
| Status : | Not Answered |
| Chosen Option : | -- |

| | |
|---|---|
| Q.22 | Which scheme was launched in December 2000 to provide all-weather road connectivity to eligible, unconnected rural habitations across India? |
| Ans | ✘ A. Viksit Bharat- G RAM G Act |
| | ✘ B. Rashtriya Gram Swaraj Abhiyan (RGSA) |
| | ✘ C. National Rural Livelihood Mission |
| | ✔ D. Pradhan Mantri Gram Sadak Yojana (PMGSY) |

| | |
|---|---|
| Question ID : | 4410092215685 |
| Option 1 ID : | 4410098718878 |
| Option 2 ID : | 4410098718880 |
| Option 3 ID : | 4410098718881 |
| Option 4 ID : | 4410098718879 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.23 | The Indian Ports Act, 2025, replaces which earlier legislation to introduce modern and contemporary regulations for Indian ports? |
|---|---|
| Ans | ✗ A. Indian Ports Act, 1958 |
| | ✗ B. Indian Ports Act, 1963 |
| | ✓ C. Indian Ports Act, 1908 |
| | ✗ D. Indian Ports Act, 1991 |

| | |
|---|---|
| Question ID : | 4410092215832 |
| Option 1 ID : | 4410098719467 |
| Option 2 ID : | 4410098719468 |
| Option 3 ID : | 4410098719469 |
| Option 4 ID : | 4410098719466 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.24 | Which specific provision was embedded in the Coal Mine/Block Production and Development Agreements (CMDPAs) executed with successful bidders for four coal mines in April 2026? |
|---|---|
| Ans | ✗ A. Self-reliance provisions |
| | ✗ B. Energy transition provisions |
| | ✗ C. Coal reserves provisions |
| | ✓ D. Underground Coal Gasification provisions |

| | |
|---|---|
| Question ID : | 4410092215617 |
| Option 1 ID : | 4410098718608 |
| Option 2 ID : | 4410098718606 |
| Option 3 ID : | 4410098718609 |
| Option 4 ID : | 4410098718607 |
| Status : | Not Answered |
| Chosen Option : | -- |

| Q.25 | Who is credited with the discovery of penicillin, the first widely used antibiotic, in 1928? |
|---|---|
| Ans | ✗ A. Isaac Newton |
| | ✓ B. Alexander Fleming |
| | ✗ C. Marie Curie |
| | ✗ D. Louis Pasteur |

| | |
|---|---|
| Question ID : | 4410092339427 |
| Option 1 ID : | 4410099199811 |
| Option 2 ID : | 4410099199810 |
| Option 3 ID : | 4410099199809 |
| Option 4 ID : | 4410099199808 |
| Status : | Not Answered |
| Chosen Option : | -- |

Section : Part 2 Numerical Ability

| | |
|---|---|
| Q.1 | A cylindrical metal rod of radius 5 cm and height 180 cm is melted and recast into a solid sphere. What is the radius (in cm) of the sphere formed? |
| Ans | ✗ A. 22 |
| | ✗ B. 21 |
| | ✗ C. 12 |
| | ✓ D. 15 |

| | |
|---|---|
| Question ID : | 4410092200360 |
| Option 1 ID : | 4410098658614 |
| Option 2 ID : | 4410098658615 |
| Option 3 ID : | 4410098658612 |
| Option 4 ID : | 4410098658613 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.2 | तीन क्रमिक प्राकृत संख्याओं के घनों का योग 99 है। अनुक्रम में सबसे छोटी संख्या ज्ञात कीजिए। |
| Ans | ✗ A. 3 |
| | ✗ B. 1 |
| | ✗ C. 4 |
| | ✓ D. 2 |

| | |
|---|---|
| Question ID : | 4410092200324 |
| Option 1 ID : | 4410098658469 |
| Option 2 ID : | 4410098658468 |
| Option 3 ID : | 4410098658471 |
| Option 4 ID : | 4410098658470 |
| Status : | Not Answered |
| Chosen Option : | -- |

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|---|---|
| Q.3 | 11 संख्याओं का औसत 110 है। यदि पहली 6 संख्याएँ 40, 32, 43, 84, 103 और 78 हैं, तो शेष संख्याओं का औसत ज्ञात कीजिए। |
| Ans | ✓ A. 166 |
| | ✗ B. 160 |
| | ✗ C. 157 |
| | ✗ D. 161 |

| | |
|---|---|
| Question ID : | 441009580519 |
| Option 1 ID : | 4410092277202 |
| Option 2 ID : | 4410092277204 |
| Option 3 ID : | 4410092277205 |
| Option 4 ID : | 4410092277203 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.4 | The price of petrol per litre increases by 90%. If the total expenditure on petrol increases by only 71%, what percentage of the initial consumption is the new petrol consumption? |
| Ans | ✗ A. 96% |
| | ✓ B. 90% |
| | ✗ C. 94% |
| | ✗ D. 85% |

| | |
|---|---|
| Question ID : | 4410092199225 |
| Option 1 ID : | 4410092199225 |
| Option 2 ID : | 4410092199223 |
| Option 3 ID : | 4410092199224 |
| Option 4 ID : | 4410092199226 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.5 | एक विक्रेता ने एक रुपये में 35 चॉकलेट बेची, जिससे उसने 60% का लाभ प्राप्त किया। उसने एक रुपये में कितनी चॉकलेट खरीदी थी? |
| Ans | ✗ A. 62 |
| | ✗ B. 58 |
| | ✗ C. 60 |
| | ✓ D. 56 |

| | |
|---|---|
| Question ID : | 4410092254899 |
| Option 1 ID : | 4410092254899 |
| Option 2 ID : | 4410092254897 |
| Option 3 ID : | 4410092254898 |
| Option 4 ID : | 4410092254896 |
| Status : | Not Answered |
| Chosen Option : | -- |

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|---|---|
| Q.6 | एक कंपनी 7 cm त्रिज्या वाली ठोस गोलाकार स्टील की गेंदों का निर्माण करती है। यदि ऐसी 27 गेंदों को पिघलाकर एक ठोस गोले में ढाला जाए, तो नए गोले की त्रिज्या (cm में) कितनी होगी? |
| Ans | ✗ A. 18 |
| | ✗ B. 23 |
| | ✓ C. 21 |
| | ✗ D. 25 |

| | |
|---|---|
| Question ID : | 4410092200367 |
| Option 1 ID : | 4410098658640 |
| Option 2 ID : | 4410098658642 |
| Option 3 ID : | 4410098658641 |
| Option 4 ID : | 4410098658643 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.7 | The product of two numbers is 12288 and their H.C.F is 64. Find their L.C.M. |
| Ans | ✔ A. 192 |
| | ✘ B. 199 |
| | ✘ C. 200 |
| | ✘ D. 185 |

| | |
|---|---|
| Question ID : | 4410095247 45 |
| Option 1 ID : | 4410092054399 |
| Option 2 ID : | 4410092054402 |
| Option 3 ID : | 4410092054401 |
| Option 4 ID : | 4410092054400 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.8 | दीपा एक बैंक से 10% वार्षिक साधारण ब्याज की दर पर ₹8,620 उधार लेती है और तीन बराबर वार्षिक किस्तों में भुगतान करने के लिए सहमत हो जाती है। प्रत्येक किस्त का मूल्य (निकटतम रुपये तक पूर्णांकित) ज्ञात कीजिए। |
| Ans | ✘ A. ₹3,442 |
| | ✘ B. ₹3,200 |
| | ✘ C. ₹3,542 |
| | ✔ D. ₹3,396 |

| | |
|---|---|
| Question ID : | 4410092200318 |
| Option 1 ID : | 4410098658446 |
| Option 2 ID : | 4410098658444 |
| Option 3 ID : | 4410098658447 |
| Option 4 ID : | 4410098658445 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.9 | दो पैकेटों के भार का अनुपात 3:5 है। यदि हल्के पैकेट का भार 12 kg है, तो भारी पैकेट का भार कितना होगा? |
| Ans | ✘ A. 24 kg |
| | ✔ B. 20 kg |
| | ✘ C. 18 kg |
| | ✘ D. 15 kg |

| | |
|---|---|
| Question ID : | 4410092200333 |
| Option 1 ID : | 4410098658504 |
| Option 2 ID : | 4410098658507 |
| Option 3 ID : | 4410098658506 |
| Option 4 ID : | 4410098658505 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.10 | The sum of the present age of Naina and three times the present age of Bhawna is 44 years. Naina's father is presently 5 times as old as Naina, while Bhawna's brother is 4 years older than Bhawna. If the sum of the present ages of Naina's father and Bhawna's brother is 56 years, then what is the sum of the present ages (in years) of Bhawna and Naina? |
| Ans | ✗ A. 18 |
| | ✗ B. 27 |
| | ✓ C. 20 |
| | ✗ D. 29 |

| | |
|---|---|
| Question ID : | 4410091219405 |
| Option 1 ID : | 4410094811044 |
| Option 2 ID : | 4410094811046 |
| Option 3 ID : | 4410094811043 |
| Option 4 ID : | 4410094811045 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.11 | Anil tosses three identical coins and agrees to donate ₹50 to charity if at least two heads appear. What is the probability that he will donate ₹50? |
| Ans | ✓ A. $\frac{1}{2}$ |
| | ✗ B. $\frac{5}{8}$ |
| | ✗ C. $\frac{3}{8}$ |
| | ✗ D. $\frac{1}{4}$ |

| | |
|---|---|
| Question ID : | 4410092200355 |
| Option 1 ID : | 4410098658592 |
| Option 2 ID : | 4410098658594 |
| Option 3 ID : | 4410098658593 |
| Option 4 ID : | 4410098658595 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.12 | A bowl is in the shape of a hemisphere with a diameter of 12 cm. What is the maximum volume of soup it can hold (in $cm^3$)? (Use $\pi = \frac{22}{7}$ and round off your answer to two decimal places) |
| Ans | ✗ A. 339.29 |
| | ✗ B. 678.58 |
| | ✗ C. 904.78 |
| | ✓ D. 452.57 |

| | |
|---|---|
| Question ID : | 4410092200358 |
| Option 1 ID : | 4410098658605 |
| Option 2 ID : | 4410098658604 |
| Option 3 ID : | 4410098658607 |
| Option 4 ID : | 4410098658606 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.13 | The value of $\left(\frac{1}{2}+\frac{1}{6}+\frac{1}{12}+\frac{1}{20}+\frac{1}{30}\right)$ is: |
| Ans | ✗ A. $\frac{7}{6}$ |
| | ✗ B. $\frac{2}{3}$ |
| | ✗ C. $\frac{3}{10}$ |
| | ✓ D. $\frac{5}{6}$ |

| | |
|---|---|
| Question ID : | 4410092200328 |
| Option 1 ID : | 4410098658485 |
| Option 2 ID : | 4410098658486 |
| Option 3 ID : | 4410098658487 |
| Option 4 ID : | 4410098658484 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.14 | In a school, the ratio of the number of boys to girls is 5:3. If 20 more girls join and 10 boys leave, the new ratio becomes 3:2. What was the original number of girls? |
| Ans | ✗ A. 200 |
| | ✗ B. 280 |
| | ✓ C. 240 |
| | ✗ D. 180 |

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|---|---|
| Question ID : | 4410092200337 |
| Option 1 ID : | 4410098658521 |
| Option 2 ID : | 4410098658523 |
| Option 3 ID : | 4410098658522 |
| Option 4 ID : | 4410098658520 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.15 | The monthly electricity bills for four months are ₹1,200, ₹1,500, ₹1,100, and ₹1,700. What is the average monthly bill? |
| Ans | ✗ A. ₹1,200 |
| | ✓ B. ₹1,375 |
| | ✗ C. ₹1,400 |
| | ✗ D. ₹1,500 |

| | |
|---|---|
| Question ID : | 4410092200316 |
| Option 1 ID : | 4410098658437 |
| Option 2 ID : | 4410098658438 |
| Option 3 ID : | 4410098658436 |
| Option 4 ID : | 4410098658439 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.16 | A truck covers four equal distances at speeds of 25 km/h, 50 km/h, 75 km/h, and 100 km/h. What is the harmonic mean speed? |
| Ans | ✗ A. 62.5 km/h |
| | ✗ B. 55 km/h |
| | ✓ C. 48 km/h |
| | ✗ D. 60 km/h |

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|---|---|
| Question ID : | 4410092200343 |
| Option 1 ID : | 4410098658545 |
| Option 2 ID : | 4410098658547 |
| Option 3 ID : | 4410098658546 |
| Option 4 ID : | 4410098658544 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.17 | If a loan of ₹5,000 is repaid after 2 years at 12% per annum, compounded semi-annually, what is the total amount to be paid (rounded off to two decimal places)? |
| Ans | ✗ A. ₹6,145.92 |
| | ✗ B. ₹6,200.00 |
| | ✗ C. ₹6,000.00 |
| | ✓ D. ₹6,312.38 |

| | |
|---|---|
| Question ID : | 4410092200322 |
| Option 1 ID : | 4410098658462 |
| Option 2 ID : | 4410098658463 |
| Option 3 ID : | 4410098658461 |
| Option 4 ID : | 4410098658460 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.18 | What is the value of $3 \div [(8-5) \div \{(4-2) \div 2\}]$? |
| Ans | ✗ A. $-2$ |
| | ✗ B. $2$ |
| | ✓ C. $1$ |
| | ✗ D. $-1$ |

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|---|---|
| Question ID : | 4410092200331 |
| Option 1 ID : | 4410098658499 |
| Option 2 ID : | 4410098658498 |
| Option 3 ID : | 4410098658497 |
| Option 4 ID : | 4410098658496 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.19 | A machine can produce 500 units in 5 hours. If another similar machine works at the same rate, how many hours will it take both machines working together to produce 1000 units? |
| Ans | ✓ A. 5 hours |
| | ✗ B. 10 hours |
| | ✗ C. 12 hours |
| | ✗ D. 7 hours |

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|---|---|
| Question ID : | 4410092200338 |
| Option 1 ID : | 4410098658525 |
| Option 2 ID : | 4410098658526 |
| Option 3 ID : | 4410098658527 |
| Option 4 ID : | 4410098658524 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|
| Q.20 | A team of 5 workers can complete a project in 12 days, and another team of 4 workers can complete the same project in 20 days. If the first team works for the first 6 days and then the second team takes over, in how many total days will the project be completed? |
| Ans | ✔ A. 16 |
| | ✘ B. 20 |
| | ✘ C. 18 |
| | ✘ D. 22 |

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|---|---|
| Question ID : | 4410092200344 |
| Option 1 ID : | 4410098658549 |
| Option 2 ID : | 4410098658551 |
| Option 3 ID : | 4410098658550 |
| Option 4 ID : | 4410098658548 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|
| Q.21 | A car covers three equal distances of 60 km each at speeds of 20 km/h, 30 km/h, and 60 km/h, respectively. What is the car's average speed for the entire 180 km journey? |
| Ans | ✔ A. 30 km/h |
| | ✘ B. 24 km/h |
| | ✘ C. 36 km/h |
| | ✘ D. 40 km/h |

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|---|---|
| Question ID : | 4410092200349 |
| Option 1 ID : | 4410098658568 |
| Option 2 ID : | 4410098658569 |
| Option 3 ID : | 4410098658570 |
| Option 4 ID : | 4410098658571 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.22 | A person walks a distance of 24 km in 6 hours. How much distance will the person walk in 9 hours at the same speed? |
| Ans | ✔ A. 36 km |
| | ✘ B. 30 km |
| | ✘ C. 32 km |
| | ✘ D. 40 km |

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|---|---|
| Question ID : | 4410092200352 |
| Option 1 ID : | 4410098658580 |
| Option 2 ID : | 4410098658582 |
| Option 3 ID : | 4410098658583 |
| Option 4 ID : | 4410098658581 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|
| Q.23 | A right prism with a triangular base has side lengths of 6 cm, 8 cm, and 10 cm, and the prism's height is 12 cm. What is the total volume of the prism? |
| Ans | ✔ A. 288 $cm^3$ |
| | ✘ B. 360 $cm^3$ |
| | ✘ C. 480 $cm^3$ |
| | ✘ D. 576 $cm^3$ |

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|---|---|
| Question ID : | 4410092200362 |
| Option 1 ID : | 4410098658623 |
| Option 2 ID : | 4410098658622 |
| Option 3 ID : | 4410098658620 |
| Option 4 ID : | 4410098658621 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.24 | The initial population of a town is 16650. It increases by 25% and 60% in two successive years but decreases by 12% in the third year. What is the population of the town at the end of the third year? |
| Ans | ✔ A. 29304 |
| | ✘ B. 29301 |
| | ✘ C. 29292 |
| | ✘ D. 29299 |

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|---|---|
| Question ID : | 441009537214 |
| Option 1 ID : | 4410092104252 |
| Option 2 ID : | 4410092104254 |
| Option 3 ID : | 4410092104255 |
| Option 4 ID : | 4410092104253 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.25 | A shopkeeper claims that he sells rock salt at ₹24 per kg, which costs him ₹35 per kg. But he gives 508 g instead of 889 g. What is his percentage profit? |
| Ans | ✔ A. 20% |
| | ✘ B. 21% |
| | ✘ C. 17% |
| | ✘ D. 19% |

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|---|---|
| Question ID : | 441009565319 |
| Option 1 ID : | 4410092216396 |
| Option 2 ID : | 4410092216399 |
| Option 3 ID : | 4410092216398 |
| Option 4 ID : | 4410092216397 |
| Status : | Answered |
| Chosen Option : | B |

Section : Part 3 Reasoning

| | |
|---|---|
| Q.1 | In a certain code language,<br>'before the event' is coded as 'pk tb aj'<br>'the best buy' is coded as 'ju pk sz'<br>'buy before tomorrow' is coded as 'aj cx ju'.<br>(All the codes are two-letter codes only.)<br>What is the code for 'best event'? |
| Ans | ✘ A. pk cx |
| | ✔ B. tb sz |
| | ✘ C. sz aj |
| | ✘ D. ju pk |

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|---|---|
| Question ID : | 4410092226314 |
| Option 1 ID : | 4410098760582 |
| Option 2 ID : | 4410098760583 |
| Option 3 ID : | 4410098760581 |
| Option 4 ID : | 4410098760584 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.2 | M is the sister of H. H is the brother of D. W is the father of X. X is the son of D. How is M related to W? |
| Ans | ✗ A. Mother |
| | ✗ B. Sister |
| | ✗ C. Wife's mother |
| | ✓ D. Wife's sister |

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|---|---|
| Question ID : | 4410092226681 |
| Option 1 ID : | 4410098762010 |
| Option 2 ID : | 4410098762009 |
| Option 3 ID : | 4410098762012 |
| Option 4 ID : | 4410098762011 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.3 | In this question, a question is followed by two statements numbered (I) and (II). You have to decide whether the data provided in the statements are sufficient to answer the question. Read both the statements and decide the appropriate answer.<br>Five storage units – Amber, Bronze, Crystal, Diamond and Emerald – are arranged from left to right. Which storage unit is at the centre position?<br>(I) Crystal is to the right of Bronze but to the left of Diamond.<br>(II) Amber is at the extreme left, Bronze is immediately to the right of Amber and Emerald is at the extreme right. |
| Ans | ✗ A. Both statements I and II together are NOT sufficient to answer the question |
| | ✗ B. Data in Statement I alone is sufficient to answer the question while data in Statement II is not |
| | ✗ C. Data in Statement II alone is sufficient to answer the question while data in Statement I is not |
| | ✓ D. Both statements I and II together (and not statement I alone or statement II alone) are sufficient to answer the question |

| | |
|---|---|
| Question ID : | 4410092226443 |
| Option 1 ID : | 4410098761100 |
| Option 2 ID : | 4410098761098 |
| Option 3 ID : | 4410098761099 |
| Option 4 ID : | 4410098761097 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.4 | If 7 July 2000 is a Friday, then what will be the day of the week on 22 October 2009?<br>2827 |
| Ans | ✔ A. Thursday |
| | ✘ B. Tuesday |
| | ✘ C. Monday |
| | ✘ D. Wednesday |

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|---|---|
| Question ID : | 441009723297 |
| Option 1 ID : | 4410092846943 |
| Option 2 ID : | 4410092846941 |
| Option 3 ID : | 4410092846940 |
| Option 4 ID : | 4410092846942 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.5 | 17 is related to 196 following a certain logic. Following the same logic, 21 is related to 212. To which of the following is 30 related, following the same logic?<br>(NOTE: Operations should be performed on the whole numbers, without breaking down the numbers into its constituent digits. E.g. 13 – Operations on 13 such as adding/subtracting/multiplying etc. to 13 can be performed. Breaking down 13 into 1 and 3 and then performing mathematical operations on 1 and 3 is not allowed.) |
| Ans | ✘ A. 246 |
| | ✔ B. 248 |
| | ✘ C. 244 |
| | ✘ D. 247 |

| | |
|---|---|
| Question ID : | 4410092226696 |
| Option 1 ID : | 4410098762070 |
| Option 2 ID : | 4410098762072 |
| Option 3 ID : | 4410098762069 |
| Option 4 ID : | 4410098762071 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.6 | What should come in place of the question mark (?) in the following series based on the English alphabetical order?<br>UXP SVN QTL ORJ ?<br><br>11872 |
| Ans | ✔ A. MPH |
| | ✘ B. PMH |
| | ✘ C. PMG |
| | ✘ D. MPG |

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|---|---|
| Question ID : | 441009732342 |
| Option 1 ID : | 4410092883120 |
| Option 2 ID : | 4410092883122 |
| Option 3 ID : | 4410092883123 |
| Option 4 ID : | 4410092883121 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|
| Q.7 | Read the given statements and conclusions carefully. Assuming that the information given in the statements is true, even if it appears to be at variance with commonly known facts, decide which of the given conclusion(s) logically follow(s) from the statements.<br><br>Statements:<br>All chairs are tables.<br>Some chairs are beds.<br><br>Conclusions:<br>(I) Some beds are tables.<br>(II) Some beds are chairs. |
| Ans | ✘ A. Neither conclusion (I) nor (II) follows. |
| | ✔ B. Both conclusions (I) and (II) follow. |
| | ✘ C. Only conclusion (II) follows. |
| | ✘ D. Only conclusion (I) follows. |

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|---|---|
| Question ID : | 44100928281 |
| Option 1 ID : | 441009112658 |
| Option 2 ID : | 441009112659 |
| Option 3 ID : | 441009112657 |
| Option 4 ID : | 441009112656 |
| Status : | Answered |
| Chosen Option : | C |

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| Q.8 | LHFK is related to RNLQ in a certain way based on the English alphabetical order. In the same way, NJHM is related to TPNS. To which of the given options is PLJO related, following the same logic? |
| Ans | ✗ A. RVPU |
| | ✗ B. VRUP |
| | ✗ C. RVUP |
| | ✓ D. VRPU |

| | |
|---|---|
| Question ID : | 441009252174 |
| Option 1 ID : | 441009982622 |
| Option 2 ID : | 441009982621 |
| Option 3 ID : | 441009982623 |
| Option 4 ID : | 441009982620 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.9 | Refer to the following letter, number, symbol series and answer the question.<br>(NOTE: All numbers are single digit numbers only)<br><br>(Left) V T & @ X 1 M * & % Q 5 3 U © © 7 N € # P U (Right)<br><br>If all the letters are dropped from the series, which of the following will be fifth from the left?11909 |
| Ans | ✓ A. & |
| | ✗ B. % |
| | ✗ C. 5 |
| | ✗ D. © |

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|---|---|
| Question ID : | 441009701137 |
| Option 1 ID : | 4410092758578 |
| Option 2 ID : | 4410092758579 |
| Option 3 ID : | 4410092758581 |
| Option 4 ID : | 4410092758580 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|
| Q.10 | Seven boxes, C, H, A, I, R, E and D, are kept one over the other but not necessarily in the same order.<br>D is kept second from the bottom. Only three boxes are kept between D and I. R is kept at one of the positions below D. Only E is kept between I and H. C is kept at one of the positions above I.<br>How many boxes are kept between A and I? |
| Ans | ✗ A. Four |
| | ✗ B. Three |
| | ✓ C. Two |
| | ✗ D. One |

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|---|---|
| Question ID : | 4410091526435 |
| Option 1 ID : | 4410096028857 |
| Option 2 ID : | 4410096028856 |
| Option 3 ID : | 4410096028855 |
| Option 4 ID : | 4410096028854 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.11 | Select the option that represents the correct order of the given words as they would appear in an English dictionary.<br>**Belief**<br>**Believe**<br>**Bell**<br>**Belly**<br>**Belong** |
| Ans | ✓ A. 12345 |
| | ✗ B. 31425 |
| | ✗ C. 32145 |
| | ✗ D. 31254 |

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|---|---|
| Question ID : | 441009181673 |
| Option 1 ID : | 441009718195 |
| Option 2 ID : | 441009718197 |
| Option 3 ID : | 441009718198 |
| Option 4 ID : | 441009718196 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.12 | A, B, C, D, W, X and Y are sitting around a circular table, facing the centre of the table. Y is the immediate neighbour of both A and C. C sits third to the left of X. B sits to the immediate left of X. D is not an immediate neighbor of C. Who sits third to the left of W? |
| Ans | ✗ A. D |
| | ✗ B. X |
| | ✗ C. C |
| | ✓ D. A |

| | |
|---|---|
| Question ID : | 441009809413 |
| Option 1 ID : | 4410093191777 |
| Option 2 ID : | 4410093191778 |
| Option 3 ID : | 4410093191776 |
| Option 4 ID : | 4410093191775 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.13 | If 2 is added to each even digit and 3 is subtracted from each odd digit in the number 5394726, how many digits will appear more than once in the new number thus formed? |
| Ans | ✗ A. None |
| | ✗ B. One |
| | ✗ C. Three |
| | ✓ D. Two |

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|---|---|
| Question ID : | 441009550869 |
| Option 1 ID : | 4410092158790 |
| Option 2 ID : | 4410092158791 |
| Option 3 ID : | 4410092158793 |
| Option 4 ID : | 4410092158792 |
| Status : | Answered |
| Chosen Option : | B |

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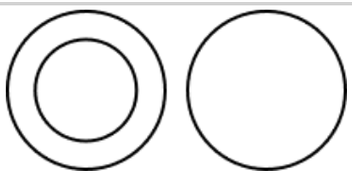
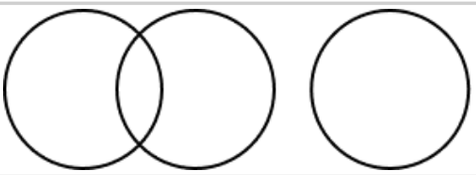
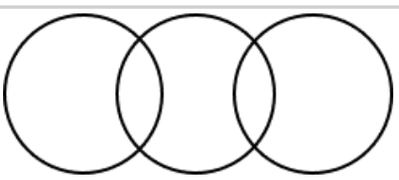
|---|---|
| Q.14 | Select the Venn diagram that best illustrates the relationship between the following classes.<br>Reptiles, Frogs, Amphibians |
| Ans | ✔ A.  |
| | ✘ B.  |
| | ✘ C.  |
| | ✘ D.  |

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|---|---|
| Question ID : | 4410092226322 |
| Option 1 ID : | 4410098760615 |
| Option 2 ID : | 4410098760616 |
| Option 3 ID : | 4410098760613 |
| Option 4 ID : | 4410098760614 |
| Status : | Answered |
| Chosen Option : | A |

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| Q.15 | An accurate clock shows 7:40 am. By how many degrees will the hour hand rotate when the clock shows 5:20 pm? | |
| Ans | ✗ A. 260° | |
| | ✗ B. 250° | |
| | ✗ C. 280° | |
| | ✓ D. 290° | |

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|---|---|
| Question ID : | 4410092226678 |
| Option 1 ID : | 4410098761998 |
| Option 2 ID : | 4410098761997 |
| Option 3 ID : | 4410098761999 |
| Option 4 ID : | 4410098762000 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|---|
| Q.16 | **इस प्रश्न में, एक कथन के बाद I और II द्वारा क्रमांकित दो कार्यवाइयां दी गई हैं। आपको कथन में दी गई सभी बातों को सत्य मानना है और कथन में दी गई जानकारी के आधार पर तय करना है कि कौन-सी कार्यवाइयां तार्किक रूप से अनुसरण करती हैं।**<br><br>**कथन:**<br>**हाल ही में हुए एक सर्वेक्षण में पाया गया है कि शहर M में सार्वजनिक परिवहन का उपयोग करने वाले लोगों की संख्या में भारी गिरावट आई है, जिससे यातायात जाम और प्रदूषण में वृद्धि हुई है।**<br><br>**कार्यवाई:**<br>**I. सरकार को सार्वजनिक परिवहन के किराए कम करने चाहिए और सेवाओं की आवृत्ति में सुधार करना चाहिए।**<br>**II. निजी वाहनों के प्रवेश शुल्क में वृद्धि की जानी चाहिए।** | |
| Ans | ✗ A. केवल I अनुसरण करती है | |
| | ✗ B. न तो I और न ही II अनुसरण करती है | |
| | ✓ C. I और II दोनों अनुसरण करती हैं | |
| | ✗ D. केवल II अनुसरण करती है | |

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| Question ID : | 4410091207071 |
| Option 1 ID : | 4410094761812 |
| Option 2 ID : | 4410094761811 |
| Option 3 ID : | 4410094761810 |
| Option 4 ID : | 4410094761813 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.17 | Refer to the following letter, symbol series and answer the question. Counting to be done from left to right only.<br>(Left) % / C C Q & & Y R ? @ O P G & U X V * ^ Z R V # (Right)<br>How many such letters are there each of which is immediately preceded by a symbol and also immediately followed by a symbol?8783 |
| Ans | ✔ A. None |
| | ✘ B. Three |
| | ✘ C. Two |
| | ✘ D. One |

| | |
|---|---|
| Question ID : | 441009782645 |
| Option 1 ID : | 4410093084583 |
| Option 2 ID : | 4410093084586 |
| Option 3 ID : | 4410093084585 |
| Option 4 ID : | 4410093084584 |
| Status : | Answered |
| Chosen Option : | A |

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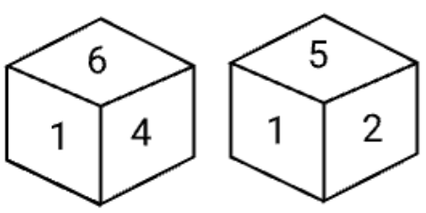
|---|---|
| Q.18 | Six numbers 1, 2, 3, 4, 5 and 6 are written on different faces of a dice. Two different positions of the same dice are given below. Which is the number on the face opposite the face containing 4?<br>  |
| Ans | ✘ A. 6 |
| | ✔ B. 2 |
| | ✘ C. 5 |
| | ✘ D. 1 |

| | |
|---|---|
| Question ID : | 4410092260310 |
| Option 1 ID : | 4410098896297 |
| Option 2 ID : | 4410098896295 |
| Option 3 ID : | 4410098896296 |
| Option 4 ID : | 4410098896294 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.19 | C, O, R, P and E have different heights. C is taller than R. Only E is shorter than P. O is taller than C. How many people are taller than R? |
| Ans | ✔ A. Two |
| | ✘ B. Three |
| | ✘ C. Four |
| | ✘ D. One |

| | |
|---|---|
| Question ID : | 4410091646957 |
| Option 1 ID : | 4410096504094 |
| Option 2 ID : | 4410096504095 |
| Option 3 ID : | 4410096504096 |
| Option 4 ID : | 4410096504093 |
| Status : | Answered |
| Chosen Option : | A |

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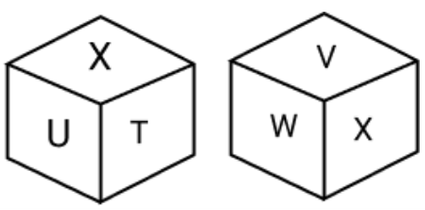
|---|---|
| Q.20 | Six letters S, T, U, V, W and X are written on different faces of a dice. Two positions of this dice are shown in the figure. Find the letter on the face opposite to V.   |
| Ans | ✘ A. W |
| | ✔ B. U |
| | ✘ C. T |
| | ✘ D. S |

| | |
|---|---|
| Question ID : | 4410092260306 |
| Option 1 ID : | 4410098908806 |
| Option 2 ID : | 4410098908804 |
| Option 3 ID : | 4410098908805 |
| Option 4 ID : | 4410098908803 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.21 | What should come in place of '?' in the given series?<br><br>11 20 38 65 101 ? |
| Ans | ✗ A. 148 |
| | ✗ B. 147 |
| | ✓ C. 146 |
| | ✗ D. 145 |

| | |
|---|---|
| Question ID : | 4410091201828 |
| Option 1 ID : | 4410094741097 |
| Option 2 ID : | 4410094741096 |
| Option 3 ID : | 4410094741095 |
| Option 4 ID : | 4410094741094 |
| Status : | Answered |
| Chosen Option : | C |

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| Q.22 | Seven boxes P, I, R, A, T, E and S are kept one over the other but not necessarily in the same order. No box is kept above R. Only two boxes are kept between P and E. P is kept immediately below R. Only A is kept below I. S is not kept immediately above E. How many boxes are kept between T and A?<br>3163 |
| Ans | ✗ A. Three |
| | ✗ B. One |
| | ✗ C. Four |
| | ✓ D. Two |

| | |
|---|---|
| Question ID : | 441009709332 |
| Option 1 ID : | 4410092791301 |
| Option 2 ID : | 4410092791299 |
| Option 3 ID : | 4410092791302 |
| Option 4 ID : | 4410092791300 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.23 | Based on the English alphabetical order, three of the following four are alike in a certain way and thus form a group. Which is the one that does not belong to that group?<br>(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster.) |
| Ans | ✗ A. MIF |
| | ✗ B. QMJ |
| | ✗ C. TPM |
| | ✓ D. OLP |

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|---|---|
| Question ID : | 441009368170 |
| Option 1 ID : | 4410091438652 |
| Option 2 ID : | 4410091438651 |
| Option 3 ID : | 4410091438650 |
| Option 4 ID : | 4410091438653 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.24 | दिवेश बिंदु A से ड्राइव करना शुरू करता है और पूरब की ओर 7 km ड्राइव करता है। फिर वह दाएँ मुड़ता है और 5 km ड्राइव करता है। वह फिर से दाएँ मुड़ता है और 2 km ड्राइव करता है। फिर वह बाएँ मुड़ता है और 3 km ड्राइव करता है। अंततः वह दाएँ मुड़ता है और बिंदु B तक पहुँचने के लिए 5 km ड्राइव करता है। बिंदु A तक पुनः पहुँचने के लिए उसे कितनी दूर (न्यूनतम दूरी) और किस दिशा में ड्राइव करना चाहिए? (जब तक कि निर्दिष्ट न किया जाए, सभी मोड़ केवल 90-डिग्री के मोड़ हैं।) |
| Ans | ✗ A. 7 km, उत्तर की ओर |
| | ✓ B. 8 km, उत्तर की ओर |
| | ✗ C.<br>5 km, उत्तर की ओर |
| | ✗ D.<br>8 km, पश्चिम की ओर |

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|---|---|
| Question ID : | 441009732930 |
| Option 1 ID : | 4410092885472 |
| Option 2 ID : | 4410092885473 |
| Option 3 ID : | 4410092885475 |
| Option 4 ID : | 4410092885474 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.25 | What should come in place of the question mark (?) in the given series?<br>208 218 227 235 242 ? |
| Ans | ✔ A. 248 |
| | ✘ B. 254 |
| | ✘ C. 252 |
| | ✘ D. 251 |

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|---|---|
| Question ID : | 441009281552 |
| Option 1 ID : | 4410091094095 |
| Option 2 ID : | 4410091094097 |
| Option 3 ID : | 4410091094096 |
| Option 4 ID : | 4410091094094 |
| Status : | Answered |
| Chosen Option : | A |

Section : Part 4 General English

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|---|---|
| Q.1 | Choose the correct direct speech for the reported sentence.<br><br>He asked if I had seen his book. |
| Ans | ✘ A. He asked, "Did you see my book?" |
| | ✘ B. He asked, "Are you seeing my book?" |
| | ✔ C. He asked, "Have you seen my book?" |
| | ✘ D. He asked, "Will you see my book?" |

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|---|---|
| Question ID : | 4410092220603 |
| Option 1 ID : | 4410098738078 |
| Option 2 ID : | 4410098738080 |
| Option 3 ID : | 4410098738081 |
| Option 4 ID : | 4410098738079 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.2 | Rearrange the following segments to form a coherent statement.<br><br>(A) the research findings were significant<br>(B) despite the limited sample size<br>(C) suggesting new avenues for exploration<br>(D) according to the committee's report |
| Ans | ✔ A. BADC |
| | ✘ B. DABC |
| | ✘ C. CABD |
| | ✘ D. ACDB |

| | |
|---|---|
| Question ID : | 4410092230800 |
| Option 1 ID : | 4410098776666 |
| Option 2 ID : | 4410098776664 |
| Option 3 ID : | 4410098776665 |
| Option 4 ID : | 4410098776663 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.3 | Complete the given sentence, choosing your answer from the options provided.<br><br>The jury reached _____ verdict after hours of deliberation. |
| Ans | ✘ A. their |
| | ✘ B. her |
| | ✘ C. his |
| | ✔ D. its |

| | |
|---|---|
| Question ID : | 4410091645540 |
| Option 1 ID : | 4410096498691 |
| Option 2 ID : | 4410096498693 |
| Option 3 ID : | 4410096498692 |
| Option 4 ID : | 4410096498690 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.4 | Which one word best substitutes the underlined phrase?<br><br>Krishna is respected worldwide because he is a person who supports a cause without personal gain'. |
| Ans | ✔ A. Altruist |
| | ✘ B. Iconoclast |
| | ✘ C. Philanderer |
| | ✘ D. Pragmatist |

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|---|---|
| Question ID : | 4410092220882 |
| Option 1 ID : | 4410098739176 |
| Option 2 ID : | 4410098739177 |
| Option 3 ID : | 4410098739174 |
| Option 4 ID : | 4410098739175 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.5 | In the given question, a statement divided into segments is provided. Rearrange all the segments to form a coherent statement.<br><br>about the proposal (P) / no sooner had the meeting (Q) / than several members (R) / begun officially (S) / raised important concerns (T) |
| Ans | ✘ A. QRTSP |
| | ✘ B. RSTQP |
| | ✔ C. QSRTP |
| | ✘ D. PQRST |

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|---|---|
| Question ID : | 4410092221187 |
| Option 1 ID : | 4410098740383 |
| Option 2 ID : | 4410098740385 |
| Option 3 ID : | 4410098740384 |
| Option 4 ID : | 4410098740382 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.6 | Choose the most appropriate option to fill in the given blanks.<br><br>___ Nile is longer than ___ Amazon, but both are important rivers. |
| Ans | ✗ A. A / the |
| | ✗ B. The / an |
| | ✗ C. A / a |
| | ✓ D. The / the |

| | |
|---|---|
| Question ID : | 4410091418354 |
| Option 1 ID : | 4410095602342 |
| Option 2 ID : | 4410095602341 |
| Option 3 ID : | 4410095602339 |
| Option 4 ID : | 4410095602340 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.7 | Select the most appropriate synonym of the word 'Benevolent' from the given sentence.<br><br>Sentence: His altruistic endowment to the beleaguered institution ensured scholarships for dozens of impecunious scholars. |
| Ans | ✗ A. impecunious |
| | ✗ B. scholars |
| | ✗ C. endowment |
| | ✓ D. altruistic |

| | |
|---|---|
| Question ID : | 441009289857 |
| Option 1 ID : | 4410091126376 |
| Option 2 ID : | 4410091126377 |
| Option 3 ID : | 4410091126374 |
| Option 4 ID : | 4410091126375 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.8 | Select the most appropriate idiom that can substitute the underlined segment in the given sentence.<br>By the time the bank installed stronger security protocols, millions had already been lost to fraud; it had clearly reacted far too late to prevent the damage. |
| Ans | ✔ A. locked the stable door after the horse had bolted |
| | ✘ B. took the wind out of their sails |
| | ✘ C. put the cart before the horse |
| | ✘ D. bit off more than they could chew |

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|---|---|
| Question ID : | 4410092221197 |
| Option 1 ID : | 4410098740424 |
| Option 2 ID : | 4410098740422 |
| Option 3 ID : | 4410098740423 |
| Option 4 ID : | 4410098740425 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.9 | Identify the sentence that correctly uses the passive voice. |
| Ans | ✔ A. After weeks of careful investigation, the missing evidence was uncovered by the detectives, and the long-unsolved case was finally solved. |
| | ✘ B. After weeks of careful investigation, the missing evidence uncovered the detectives and finally solved the long-unsolved case. |
| | ✘ C. After weeks of careful investigation, the detectives were steadily uncovering the missing evidence that finally solved the long-unsolved case. |
| | ✘ D. After weeks of careful investigation, the detectives steadily uncovered the missing evidence that finally solved the long-unsolved case. |

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|---|---|
| Question ID : | 4410092221204 |
| Option 1 ID : | 4410098740451 |
| Option 2 ID : | 4410098740453 |
| Option 3 ID : | 4410098740452 |
| Option 4 ID : | 4410098740450 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.10 | Choose the best one word substitution for the underlined word<br>Henry was being described as 'a person who is new to a subject, skill, or belief' during the conference. |
| Ans | ✔ A. Neophyte |
| | ✘ B. Iconoclast |
| | ✘ C. Savant |
| | ✘ D. Maverick |

| | |
|---|---|
| Question ID : | 4410092220885 |
| Option 1 ID : | 4410098739189 |
| Option 2 ID : | 4410098739188 |
| Option 3 ID : | 4410098739187 |
| Option 4 ID : | 4410098739186 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.11 | Complete the sentence in direct speech.<br><br>Reported sentence: The senior engineer said that I should have completed the system upgrade before the audit.<br>The senior engineer said, "You _____ have completed the system upgrade before the audit." |
| Ans | ✘ A. might |
| | ✘ B. must |
| | ✔ C. should |
| | ✘ D. would |

| | |
|---|---|
| Question ID : | 4410091300361 |
| Option 1 ID : | 4410095133774 |
| Option 2 ID : | 4410095133772 |
| Option 3 ID : | 4410095133773 |
| Option 4 ID : | 4410095133775 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.12 | Identify and correct the error in the given sentence from the options provided below.<br>By tomorrow evening, the carpenter complete the wooden cabinet. |
| Ans | ✗ A. By tomorrow evening, the carpenter will have complete the wooden cabinet. |
| | ✗ B. By tomorrow evening, the carpenter completed the wooden cabinet. |
| | ✗ C. By tomorrow evening, the carpenter has completed the wooden cabinet. |
| | ✓ D. By tomorrow evening, the carpenter will have completed the wooden cabinet. |

| | |
|---|---|
| Question ID : | 4410092221191 |
| Option 1 ID : | 4410098740399 |
| Option 2 ID : | 4410098740400 |
| Option 3 ID : | 4410098740401 |
| Option 4 ID : | 4410098740398 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.13 | Identify the incorrectly spelt word in the following sentence.<br><br>The researcher aduced incontrovertible evidence demonstrating that the systematic inculcation of metacognitive strategies substantially augments students' higher-order cognitive faculties. |
| Ans | ✗ A. incontrovertible |
| | ✗ B. inculcation |
| | ✗ C. augments |
| | ✓ D. aduced |

| | |
|---|---|
| Question ID : | 441009640128 |
| Option 1 ID : | 4410092514663 |
| Option 2 ID : | 4410092514662 |
| Option 3 ID : | 4410092514661 |
| Option 4 ID : | 4410092514660 |
| Status : | Answered |
| Chosen Option : | B |

| Q.14 | Complete the sentence with the most appropriate option:<br><br>In the field of climate science, many experts emphasize _____ urgency of addressing _____ melting of polar ice caps to prevent catastrophic global sea level rise. |
|---|---|
| Ans | ✗ A. the, no article |
| | ✗ B. an, no article |
| | ✓ C. the, the |
| | ✗ D. an, an |

| | |
|---|---|
| Question ID : | 441009103367 |
| Option 1 ID : | 441009411597 |
| Option 2 ID : | 441009411598 |
| Option 3 ID : | 441009411596 |
| Option 4 ID : | 441009411595 |
| Status : | Answered |
| Chosen Option : | B |

| Q.15 | Complete the sentence by choosing an appropriate option.<br><br>_____ his vast experience in the field, he struggled to adapt to the new software. |
|---|---|
| Ans | ✗ A. Albeit |
| | ✗ B. Even though |
| | ✓ C. Notwithstanding |
| | ✗ D. Whereas |

| | |
|---|---|
| Question ID : | 4410091602525 |
| Option 1 ID : | 4410096329676 |
| Option 2 ID : | 4410096329675 |
| Option 3 ID : | 4410096329677 |
| Option 4 ID : | 4410096329674 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.16 | Find the sentence with incorrect tense usage. |
| Ans | ✗ A. A healthy democracy encourages citizens to participate actively in elections and public discussions throughout the year. |
| | ✓ B. Every evening, the station announcer is announcing the train schedules and guides passengers to the correct platforms. |
| | ✗ C. Effective educational institutions encourage independent learning while providing students with consistent academic guidance. |
| | ✗ D. Every election season, political parties organize extensive public debates to explain their policies and address voters' concerns. |

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| Question ID : | 4410092221194 |
| Option 1 ID : | 4410098740410 |
| Option 2 ID : | 4410098740411 |
| Option 3 ID : | 4410098740413 |
| Option 4 ID : | 4410098740412 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.17 | Choose the option which correctly rectifies and completes the given sentence.<br><br>The biographer pointed out that the leader's humility, resilience, and unwavering _____ to public service made him admired across generations. |
| Ans | ✗ A. The biographer pointed out that the leader's humility, recilience, and unwavering commitemant to public service made him admired across generations. |
| | ✓ B. The biographer pointed out that the leader's humility, resilience, and unwavering commitment to public service made him admired across generations. |
| | ✗ C. The biographer pointed out that the leader's humillity, resiliance, and unwavering committement to public service made him admired across generations. |
| | ✗ D. The biographer pointed out that the leader's humelity, resilience, and unwaverring comitement to public service made him admired across generations. |

| | |
|---|---|
| Question ID : | 4410091236383 |
| Option 1 ID : | 4410094879109 |
| Option 2 ID : | 4410094879112 |
| Option 3 ID : | 4410094879111 |
| Option 4 ID : | 4410094879110 |
| Status : | Answered |
| Chosen Option : | B |

| Q.18 | What does the idiom "walk on air" mean to: |
|---|---|
| Ans | ✗ A. Be physically light, often after a significant weight loss |
| | ✓ B. Be in a state of extreme happiness or euphoria |
| | ✗ C. Appear unaffected by criticism or stress |
| | ✗ D. Feel uncertain or insecure about a situation |

| | |
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| Question ID : | 441009225763 |
| Option 1 ID : | 441009883901 |
| Option 2 ID : | 441009883898 |
| Option 3 ID : | 441009883900 |
| Option 4 ID : | 441009883899 |
| Status : | Answered |
| Chosen Option : | B |

| Q.19 | Complete the following sentence by choosing the correct option.<br>The proposal was accepted _____ it addressed the committee's concerns comprehensively and demonstrated feasibility. |
|---|---|
| Ans | ✗ A. provided that |
| | ✗ B. unless |
| | ✗ C. while |
| | ✓ D. since |

| | |
|---|---|
| Question ID : | 4410091516437 |
| Option 1 ID : | 4410095989155 |
| Option 2 ID : | 4410095989153 |
| Option 3 ID : | 4410095989156 |
| Option 4 ID : | 4410095989154 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.20 | **Choose the option that expresses the given sentence in the active voice.**<br>**The young couple was admired by their neighbours because their love and mutual respect had inspired many people in the community to strengthen their own relationships.** |
| Ans | ✔ A. Their neighbours admired the young couple because their love and mutual respect had inspired many people in the community to strengthen their own relationships. |
| | ✘ B. Their neighbours are admiring the young couple because their love and mutual respect inspires many people in the community to strengthen their own relationships. |
| | ✘ C. The young couple admired their neighbours because their love and mutual respect had inspired many people in the community to strengthen their own relationships. |
| | ✘ D. Their neighbours are admired by the young couple because their love and mutual respect had inspired many people in the community to strengthen their own relationships. |

| | |
|---|---|
| Question ID : | **4410092221201** |
| Option 1 ID : | **4410098740438** |
| Option 2 ID : | **4410098740441** |
| Option 3 ID : | **4410098740439** |
| Option 4 ID : | **4410098740440** |
| Status : | **Answered** |
| Chosen Option : | **B** |

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|---|---|
| | **Comprehension:** |
| | Read the following passage carefully and answer the questions based on it.<br><br>Will Wimble's is the case of many a younger brother of a great family, who had rather see their children starve like gentlemen, than thrive in a trade or profession that is beneath their quality. This humour fills several parts of Europe with pride and beggary. It is the happiness of a trading nation, like ours, that the younger sons, though incapable of any liberal art or profession, may be placed in such a way of life, as may perhaps enable them to vie with the best of their family: accordingly we find several citizens that were launched into the world with narrow fortunes, rising by an honest industry to greater estates than those of their elder brothers. It is not improbable but Will was formerly tried at divinity, law, or physic; and that finding his genius did not lie that way, his parents gave him up at length to his own inventions. But certainly, however improper he might have been for studies of a higher nature, he was perfectly well turned for the occupations of trade and commerce. This serves as a testament to the wisdom of valuing honest labour, for diligence and adaptability often lead to prosperity, while prideful aversion to work only results in needless suffering and lost opportunities. |
| | **SubQuestion No : 21** |
| Q.21 | **The tone of the passage can best be described as:** |
| Ans | ✔ A. Satirical and reflective |
| | ✘ B. Didactic and analytical |
| | ✘ C. Melancholic and sorrowful |
| | ✘ D. Humorous and critical |

| | |
|---|---|
| Question ID : | **4410091370959** |
| Option 1 ID : | **4410095415241** |
| Option 2 ID : | **4410095415243** |
| Option 3 ID : | **4410095415242** |
| Option 4 ID : | **4410095415240** |
| Status : | **Answered** |
| Chosen Option : | **B** |

| | |
|---|---|
| | **Comprehension:** |
| | Read the following passage carefully and answer the questions based on it.<br><br>Will Wimble's is the case of many a younger brother of a great family, who had rather see their children starve like gentlemen, than thrive in a trade or profession that is beneath their quality. This humour fills several parts of Europe with pride and beggary. It is the happiness of a trading nation, like ours, that the younger sons, though incapable of any liberal art or profession, may be placed in such a way of life, as may perhaps enable them to vie with the best of their family: accordingly we find several citizens that were launched into the world with narrow fortunes, rising by an honest industry to greater estates than those of their elder brothers. It is not improbable but Will was formerly tried at divinity, law, or physic; and that finding his genius did not lie that way, his parents gave him up at length to his own inventions. But certainly, however improper he might have been for studies of a higher nature, he was perfectly well turned for the occupations of trade and commerce. This serves as a testament to the wisdom of valuing honest labour, for diligence and adaptability often lead to prosperity, while prideful aversion to work only results in needless suffering and lost opportunities. |
| | **SubQuestion No : 22** |
| Q.22 | **What is the structure of the passage?** |
| Ans | ✗ A. Chronological narration → Character study → Conclusion |
| | ✗ B. Descriptive imagery → Argumentative discourse → Illustrative example |
| | ✗ C. Question → Hypothesis → Deduction |
| | ✓ D. Problem → Solution → Moral conclusion |

| | |
|---|---|
| Question ID : | **4410091370960** |
| Option 1 ID : | **4410095415247** |
| Option 2 ID : | **4410095415245** |
| Option 3 ID : | **4410095415246** |
| Option 4 ID : | **4410095415244** |
| Status : | **Answered** |
| Chosen Option : | **B** |

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|---|---|
| | **Comprehension:** |
| | Read the following passage carefully and answer the questions based on it.<br><br>Will Wimble's is the case of many a younger brother of a great family, who had rather see their children starve like gentlemen, than thrive in a trade or profession that is beneath their quality. This humour fills several parts of Europe with pride and beggary. It is the happiness of a trading nation, like ours, that the younger sons, though incapable of any liberal art or profession, may be placed in such a way of life, as may perhaps enable them to vie with the best of their family: accordingly we find several citizens that were launched into the world with narrow fortunes, rising by an honest industry to greater estates than those of their elder brothers. It is not improbable but Will was formerly tried at divinity, law, or physic; and that finding his genius did not lie that way, his parents gave him up at length to his own inventions. But certainly, however improper he might have been for studies of a higher nature, he was perfectly well turned for the occupations of trade and commerce. This serves as a testament to the wisdom of valuing honest labour, for diligence and adaptability often lead to prosperity, while prideful aversion to work only results in needless suffering and lost opportunities. |
| | **SubQuestion No : 23** |
| Q.23 | **What is the central theme of the passage?** |
| Ans | ✗ A. Education in liberal arts guarantees prosperity |
| | ✗ B. Pride and aristocracy often lead to success |
| | ✗ C. Younger sons are generally incapable of success |
| | ✓ D. Honest labor and adaptability surpass inherited status |

| | |
|---|---|
| Question ID : | **4410091370961** |
| Option 1 ID : | **4410095415251** |
| Option 2 ID : | **4410095415248** |
| Option 3 ID : | **4410095415250** |
| Option 4 ID : | **4410095415249** |
| Status : | **Answered** |
| Chosen Option : | **B** |

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|---|---|
| | **Comprehension:** |
| | Read the following passage carefully and answer the questions based on it.<br><br>Will Wimble's is the case of many a younger brother of a great family, who had rather see their children starve like gentlemen, than thrive in a trade or profession that is beneath their quality. This humour fills several parts of Europe with pride and beggary. It is the happiness of a trading nation, like ours, that the younger sons, though incapable of any liberal art or profession, may be placed in such a way of life, as may perhaps enable them to vie with the best of their family: accordingly we find several citizens that were launched into the world with narrow fortunes, rising by an honest industry to greater estates than those of their elder brothers. It is not improbable but Will was formerly tried at divinity, law, or physic; and that finding his genius did not lie that way, his parents gave him up at length to his own inventions. But certainly, however improper he might have been for studies of a higher nature, he was perfectly well turned for the occupations of trade and commerce. This serves as a testament to the wisdom of valuing honest labour, for diligence and adaptability often lead to prosperity, while prideful aversion to work only results in needless suffering and lost opportunities. |
| | **SubQuestion No : 24** |
| Q.24 | **Find the word from the passage that is most nearly opposite in meaning to "prosperity".** |
| Ans | ✗ A. Invention |
| | ✗ B. Industry |
| | ✗ C. Adaptability |
| | ✓ D. Suffering |

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| Question ID : | **4410091370962** |
| Option 1 ID : | **4410095415255** |
| Option 2 ID : | **4410095415252** |
| Option 3 ID : | **4410095415253** |
| Option 4 ID : | **4410095415254** |
| Status : | **Answered** |
| Chosen Option : | **B** |

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|---|---|
| | **Comprehension:** |
| | Read the following passage carefully and answer the questions based on it.<br><br>Will Wimble's is the case of many a younger brother of a great family, who had rather see their children starve like gentlemen, than thrive in a trade or profession that is beneath their quality. This humour fills several parts of Europe with pride and beggary. It is the happiness of a trading nation, like ours, that the younger sons, though incapable of any liberal art or profession, may be placed in such a way of life, as may perhaps enable them to vie with the best of their family: accordingly we find several citizens that were launched into the world with narrow fortunes, rising by an honest industry to greater estates than those of their elder brothers. It is not improbable but Will was formerly tried at divinity, law, or physic; and that finding his genius did not lie that way, his parents gave him up at length to his own inventions. But certainly, however improper he might have been for studies of a higher nature, he was perfectly well turned for the occupations of trade and commerce. This serves as a testament to the wisdom of valuing honest labour, for diligence and adaptability often lead to prosperity, while prideful aversion to work only results in needless suffering and lost opportunities. |
| | **SubQuestion No : 25** |
| Q.25 | **According to the passage, what likely influenced Will Wimble's parents to allow him to pursue trade and commerce?** |
| Ans | ✗ A. He excelled in divinity, law, and physic |
| | ✓ B. His aptitude did not align with traditional professions |
| | ✗ C. His genius was better suited for liberal arts |
| | ✗ D. They wanted him to surpass his elder brothers' estates |

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|---|---|
| Question ID : | **4410091370963** |
| Option 1 ID : | **4410095415257** |
| Option 2 ID : | **4410095415258** |
| Option 3 ID : | **4410095415256** |
| Option 4 ID : | **4410095415259** |
| Status : | **Answered** |
| Chosen Option : | **B** |

Section : **Part 5 Domain Knowledge**

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|---|---|
| Q.1 | **In maximum mode, the 8086 outputs three status signals $S_2$, $S_1$, $S_0$. These are used by the:** |
| Ans | ✓ A. 8288 bus controller to generate control signals |
| | ✗ B. priority interrupt controller |
| | ✗ C. direct memory access controller |
| | ✗ D. 8284 clock generator to generate clock signals |

| | |
|---|---|
| Question ID : | **441009929674** |
| Option 1 ID : | **4410093672647** |
| Option 2 ID : | **4410093672648** |
| Option 3 ID : | **4410093672645** |
| Option 4 ID : | **4410093672646** |
| Status : | **Answered** |
| Chosen Option : | **B** |

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| Q.2 | During a measurement sequence, the digital recorder in a data acquisition system consistently logs out-of-range values for all channels, although the sensors output correct voltages and the ADC produces valid digital codes. Which component is most likely the source of this error? |
| Ans | ✔ A. The recording software applying incorrect scaling or conversion factors |
| | ✘ B. The sample-and-hold circuit having insufficient acquisition time |
| | ✘ C. The signal conditioning circuit providing inadequate amplification |
| | ✘ D. The multiplexer having excessive settling time causing incomplete channel switching |

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| Question ID : | 4410091475910 |
| Option 1 ID : | 4410095830937 |
| Option 2 ID : | 4410095830936 |
| Option 3 ID : | 4410095830935 |
| Option 4 ID : | 4410095830934 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.3 | The electric and magnetic fields of a uniform TEM wave of frequency 10 GHz in a homogeneous, lossless medium of relative permittivity $\varepsilon_r$ and relative permeability $\mu_r = 1$ are:<br>$E = E_p e^{j(\omega t - 200\pi z)} a_x$ V/m<br>$H = 3 e^{j(\omega t - 200\pi z)} a_y$ A/m<br>Assume the speed of light in free space is $3\times10^8$ m/s and the intrinsic impedance of free space is $120\pi\ \Omega$. The relative permittivity $\varepsilon_r$ of the medium and the electric-field amplitude $E_p$ are _____. |
| Ans | ✔ A. $\varepsilon_r = 9, E_p = 120\pi$ |
| | ✘ B. $\varepsilon_r = 9, E_p = 40\pi$ |
| | ✘ C. $\varepsilon_r = 3, E_p = 120\pi$ |
| | ✘ D. $\varepsilon_r = 3, E_p = 40\pi$ |

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|---|---|
| Question ID : | 4410091525078 |
| Option 1 ID : | 4410096023513 |
| Option 2 ID : | 4410096023512 |
| Option 3 ID : | 4410096023511 |
| Option 4 ID : | 4410096023510 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.4 | In an ideal MOS capacitor, when the external gate-to-substrate voltage equals the flatband voltage, what is the electrostatic surface potential at the oxide-semiconductor interface, and how do the semiconductor energy bands behave? |
| Ans | ✗ A. The surface potential equals twice the bulk potential and the energy bands reach maximum bending. |
| | ✓ B. The surface potential is exactly zero and the energy bands are completely flat. |
| | ✗ C. The surface potential is negative and the energy bands bend upward. |
| | ✗ D. The surface potential is positive and the energy bands bend downward. |

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| Question ID : | 4410092269224 |
| Option 1 ID : | 4410098926695 |
| Option 2 ID : | 4410098926696 |
| Option 3 ID : | 4410098926698 |
| Option 4 ID : | 4410098926697 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.5 | Represent the given signal x(n) = [1, 2, 3, 2,1] in terms of impulse signal.<br>Note: The number with underline is the amplitude at origin. |
| Ans | ✗ A. $x(n) = \delta(n+2) + \delta(n+1) + \delta(n) + \delta(n-1) + \delta(n-2)$ |
| | ✗ B. $x(n) = 2\delta(n+2) + \delta(n+1) + 3\delta(n) + \delta(n-1) + 2\delta(n-2)$ |
| | ✓ C. $x(n) = \delta(n+2) + 2\,\delta(n+1) + 3\,\delta(n) + 2\,\delta(n-1) + \delta(n-2)$ |
| | ✗ D. $x(n) = 1\,\delta(n) + 2\,\delta(n-1) + 3\,\delta(n-2) + 2\,\delta(n-3) + \delta(n-4)$ |

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|---|---|
| Question ID : | 4410094999 |
| Option 1 ID : | 44100919819 |
| Option 2 ID : | 44100919818 |
| Option 3 ID : | 44100919820 |
| Option 4 ID : | 44100919821 |
| Status : | Answered |
| Chosen Option : | C |

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| Q.6 | In bolometer measurements, which process is most crucial for detecting temperature changes? |
| Ans | ✓ A. Absorption of electromagnetic radiation |
| | ✗ B. Reflection of heat |
| | ✗ C. Emission of infrared waves |
| | ✗ D. Transmission of light |

| | |
|---|---|
| Question ID : | 4410091725402 |
| Option 1 ID : | 4410096804667 |
| Option 2 ID : | 4410096804669 |
| Option 3 ID : | 4410096804670 |
| Option 4 ID : | 4410096804668 |
| Status : | Answered |
| Chosen Option : | A |

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| Q.7 | In a single-phase AC transformer, the hysteresis loss is associated with which of the following? |
| Ans | ✔ A. Core |
| | ✘ B. Secondary coil only |
| | ✘ C. Both primary and secondary coils |
| | ✘ D. Primary coil only |

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|---|---|
| Question ID : | 4410091086137 |
| Option 1 ID : | 4410094282093 |
| Option 2 ID : | 4410094282092 |
| Option 3 ID : | 4410094282094 |
| Option 4 ID : | 4410094282091 |
| Status : | Answered |
| Chosen Option : | A |

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| Q.8 | In the internal architecture of the 8255, the Group A control block manages which of the following? |
| Ans | ✘ A. Port B and the upper half of Port C (PC4–PC7) |
| | ✔ B. Port A and the upper half of Port C (PC4–PC7) |
| | ✘ C. Port A and the lower half of Port C (PC0–PC3) |
| | ✘ D. Only Port A |

| | |
|---|---|
| Question ID : | 4410091482090 |
| Option 1 ID : | 4410095855371 |
| Option 2 ID : | 4410095855369 |
| Option 3 ID : | 4410095855370 |
| Option 4 ID : | 4410095855372 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.9 | In an ionisation gauge, the ion current collected at the plate is proportional to: |
| Ans | ✘ A. The electron emission current from the filament |
| | ✔ B. The number of gas molecules (i.e., gas pressure) in the system |
| | ✘ C. The potential difference between the grid and plate |
| | ✘ D. The temperature of the heated filament |

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| Question ID : | 4410091478498 |
| Option 1 ID : | 4410095841332 |
| Option 2 ID : | 4410095841333 |
| Option 3 ID : | 4410095841334 |
| Option 4 ID : | 4410095841331 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.10 | If x(t) is delayed by 3 seconds, the expression is _____. |
| Ans | ✗ A. x(t / 3) |
| | ✓ B. x(t - 3) |
| | ✗ C. x(t + 3) |
| | ✗ D. x(3 t) |

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|---|---|
| Question ID : | 4410091384871 |
| Option 1 ID : | 4410095470245 |
| Option 2 ID : | 4410095470243 |
| Option 3 ID : | 4410095470242 |
| Option 4 ID : | 4410095470244 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.11 | When migrating a layout using scalable lambda-based design rules to a new foundry node, which configuration for parallel poly-gate lines creates a systematic scaling violation because it introduces a variable feature size dependency instead of a fixed multiple of lambda? |
| Ans | ✓ A. Setting minimum spacing relative to the poly-gate width instead of lambda units |
| | ✗ B. Using the same minimum spacing for poly-gate and contact cuts |
| | ✗ C. Applying minimum spacing based on the direction of metal lines only |
| | ✗ D. Referencing minimum spacing to the diffusion mask layer for all layers |

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|---|---|
| Question ID : | 4410092269238 |
| Option 1 ID : | 4410098926752 |
| Option 2 ID : | 4410098926754 |
| Option 3 ID : | 4410098926751 |
| Option 4 ID : | 4410098926753 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.12 | A bandpass signal $x(t) = 4\cos(2\pi \times 10^4 t + \pi/4)$ has an analytic representation. What is the complex envelope when the carrier frequency is 10 kHz? |
| Ans | ✗ A. $2e^{-j\frac{\pi}{4}}$ |
| | ✗ B. $2e^{j\frac{\pi}{4}}$ |
| | ✗ C. $4e^{-j\frac{\pi}{4}}$ |
| | ✓ D. $4e^{j\frac{\pi}{4}}$ |

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|---|---|
| Question ID : | 4410091417331 |
| Option 1 ID : | 4410095598261 |
| Option 2 ID : | 4410095598262 |
| Option 3 ID : | 4410095598260 |
| Option 4 ID : | 4410095598259 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.13 | Match the columns. |

| OP-AMP Circuit | Application or Method of Operation |
|---|---|
| I. Difference amplifier | A. Convert square wave into periodic spike s |
| II. Antilog amplifier | B. Used as last stage in instrumentation am |
| III. Differentiator | C. Relates input to an exponential term in th |

| | |
|---|---|
| Ans | ✗ A. I-A, II-B, III- C |
| | ✗ B. I-A, II-C, III-B |
| | ✗ C. I-C, II-B, III-A |
| | ✓ D. I-B, II-C, III-A |

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|---|---|
| Question ID : | 4410091115677 |
| Option 1 ID : | 4410094398617 |
| Option 2 ID : | 4410094398614 |
| Option 3 ID : | 4410094398615 |
| Option 4 ID : | 4410094398616 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.14 | Choose the correct statement for integrated circuit.<br><br>S1: The basic function of buried $n^+$ layer in n-p-n transistor in IC is to reduce the collector series resistance.<br>S2: The p-type epitaxial layer grown over an n-type substrate during BJT fabrication will work as the collector of a p-n-p BJT. |
| Ans | ✔ A. S1 only |
| | ✘ B. S2 only |
| | ✘ C. S1 and S2 |
| | ✘ D. Neither S1 nor S2 |

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|---|---|
| Question ID : | 4410091510021 |
| Option 1 ID : | 4410095964765 |
| Option 2 ID : | 4410095964766 |
| Option 3 ID : | 4410095964764 |
| Option 4 ID : | 4410095964767 |
| Status : | Answered |
| Chosen Option : | A |

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|---|---|
| Q.15 | A lead compensator is designed to improve: |
| Ans | ✘ A. Low-frequency gain and steady-state error |
| | ✘ B. Steady-state error only |
| | ✘ C. System order |
| | ✔ D. Phase margin and transient response |

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|---|---|
| Question ID : | 4410091420211 |
| Option 1 ID : | 4410095609765 |
| Option 2 ID : | 4410095609767 |
| Option 3 ID : | 4410095609768 |
| Option 4 ID : | 4410095609766 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.16 | In a remote agricultural monitoring network, a cluster of sensors is coordinated through a central hub using a trunked cellular system. If the system aims to maximize channel utilization without increasing the probability of blocked connections beyond its target, which design feature is most critical to monitor for consistently meeting the specified grade of service? |
| Ans | ✗ A. Focusing on the geographic distribution of sensor nodes |
| | ✗ B. Expanding the number of user terminals connected to the hub |
| | ✓ C. The allocation and management of available channels relative to call traffic fluctuations |
| | ✗ D. Increasing the antenna height at the central hub |

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|---|---|
| Question ID : | 4410092269257 |
| Option 1 ID : | 4410098926827 |
| Option 2 ID : | 4410098926830 |
| Option 3 ID : | 4410098926829 |
| Option 4 ID : | 4410098926828 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.17 | A centre-tapped full-wave rectifier uses ideal diodes and a transformer whose each half-secondary provides a sinusoidal voltage with a peak value $V_m$. The load is purely resistive. For this ideal (no diode drop) centre-tapped full-wave rectifier, what are the expressions for the average (DC) output voltage $V_{DC}$ and the RMS output voltage ($V_{rms}$) across the load? |
| Ans | ✗ A. $V_{DC} = V_m/2\pi, V_{rms} = V_m/\sqrt{2}$ |
| | ✗ B. $V_{DC} = V_m/\pi, V_{rms} = V_m/\sqrt{2}$ |
| | ✗ C. $V_{DC} = V_m/\pi, V_{rms} = V_m/2$ |
| | ✓ D. $V_{DC} = 2V_m/\pi, V_{rms} = V_m/\sqrt{2}$ |

| | |
|---|---|
| Question ID : | 4410091391818 |
| Option 1 ID : | 4410095496971 |
| Option 2 ID : | 4410095496972 |
| Option 3 ID : | 4410095496969 |
| Option 4 ID : | 4410095496970 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.18 | In the introductory specification phase of a digital VLSI design flow, which document is responsible for detailing the absolute functional, electrical, and performance requirements of the target system, and serves primarily to guide architectural design decisions? |
| Ans | ✗ A. A static timing constraints file, which sets the clock jitter tolerances for layout routing. |
| | ✓ B. A design specification document, which defines clear system constraints to guide architectural design. |
| | ✗ C. A physical floorplan layout, which calculates the exact coordinate spacing of power distribution rails. |
| | ✗ D. An RTL netlist, which maps behavioral equations directly to physical standard cell transistors. |

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| Question ID : | 4410092269242 |
| Option 1 ID : | 4410098926768 |
| Option 2 ID : | 4410098926767 |
| Option 3 ID : | 4410098926769 |
| Option 4 ID : | 4410098926770 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.19 | For a distortionless transmission line, the attenuation constant α and phase constant β are: |
| Ans | ✗ A. $\alpha = 0, \quad \beta = \omega\sqrt{(LC)}$ |
| | ✗ B. $\alpha = \omega\sqrt{(LC)}, \quad \beta = \sqrt{(RG)}$ |
| | ✓ C. $\alpha = \sqrt{(RG)}, \quad \beta = \omega\sqrt{(LC)}$ |
| | ✗ D. $\alpha = \sqrt{(LC)}, \quad \beta = \omega\sqrt{(RG)}$ |

| | |
|---|---|
| Question ID : | 4410091546027 |
| Option 1 ID : | 4410096106939 |
| Option 2 ID : | 4410096106941 |
| Option 3 ID : | 4410096106940 |
| Option 4 ID : | 4410096106942 |
| Status : | Answered |
| Chosen Option : | A |

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| Q.20 | An NMOS transistor has an intrinsic threshold voltage of 0.7 V assuming body effect is neglected. The source terminal is at 1.0 V, and the gate terminal is at 3.0 V. What is the exact boundary drain voltage (V_D) that separates the linear region from the saturation region of operation? |
| Ans | ✔ A. 2.3 V |
| | ✘ B. 2.0 V |
| | ✘ C. 1.0 V |
| | ✘ D. 1.7 V |

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|---|---|
| Question ID : | 4410092269228 |
| Option 1 ID : | 4410098926711 |
| Option 2 ID : | 4410098926714 |
| Option 3 ID : | 4410098926713 |
| Option 4 ID : | 4410098926712 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.21 | What is the output of the Boolean expression $A + \overline{A}$? |
| Ans | ✘ A. $0$ |
| | ✘ B. $\overline{A}$ |
| | ✘ C. $A$ |
| | ✔ D. $1$ |

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|---|---|
| Question ID : | 4410091142006 |
| Option 1 ID : | 4410094502995 |
| Option 2 ID : | 4410094502993 |
| Option 3 ID : | 4410094502992 |
| Option 4 ID : | 4410094502994 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.22 | A sensor state is represented by bit address 30H, where logic high indicates the sensor is active. Which instruction branches only when the sensor is inactive? |
| Ans | ✘ A. JBC 30H, INACTIVE_HANDLER |
| | ✘ B. JB 30H, INACTIVE_HANDLER |
| | ✔ C. JNB 30H, INACTIVE_HANDLER |
| | ✘ D. JC INACTIVE_HANDLER |

| | |
|---|---|
| Question ID : | 4410092267660 |
| Option 1 ID : | 4410098920540 |
| Option 2 ID : | 4410098920539 |
| Option 3 ID : | 4410098920541 |
| Option 4 ID : | 4410098920542 |
| Status : | Answered |
| Chosen Option : | B |

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| Q.23 | For the control system whose open loop transfer function is G(s)H(s) = $\frac{4}{(s+2)(s+6)}$, the steady state error for the unit ramp input is _____. |
| Ans | ✗ A. 0 |
| | ✗ B. 3 |
| | ✗ C. 1/3 |
| | ✓ D. ∞ |

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| Question ID : | 4410096772 50 |
| Option 1 ID : | 4410092663182 |
| Option 2 ID : | 4410092663181 |
| Option 3 ID : | 4410092663184 |
| Option 4 ID : | 4410092663183 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.24 | The control unit can be implemented using which of the following in a Central Processing Unit? |
| Ans | ✗ A. Combinational logic only |
| | ✓ B. Either hardwired or microprogrammed control |
| | ✗ C. Programmed control only |
| | ✗ D. System control only |

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|---|---|
| Question ID : | 4410091187681 |
| Option 1 ID : | 4410094684965 |
| Option 2 ID : | 4410094684962 |
| Option 3 ID : | 4410094684964 |
| Option 4 ID : | 4410094684963 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.25 | Which filter type is NOT a linear phase Finite Impulse Response (FIR) structure? |
| Ans | ✗ A. Type II |
| | ✗ B. Type III |
| | ✓ C. Chebyshev Type I |
| | ✗ D. Type I |

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| Question ID : | 4410091233404 |
| Option 1 ID : | 4410094867291 |
| Option 2 ID : | 4410094867292 |
| Option 3 ID : | 4410094867293 |
| Option 4 ID : | 4410094867290 |
| Status : | Answered |
| Chosen Option : | C |

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| Q.26 | **For a P-N junction diode, the width of the depletion region is:** |
| Ans | ✗ A. **Directly proportional to the room temperature.** |
| | ✓ B. **Directly proportional to the built-in barrier potential.** |
| | ✗ C. **Inversely proportional to the built-in barrier potential.** |
| | ✗ D. **Independent of built-in barrier potential and room temperature.** |

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| Question ID : | 44100929905 |
| Option 1 ID : | 441009119074 |
| Option 2 ID : | 441009119073 |
| Option 3 ID : | 441009119075 |
| Option 4 ID : | 441009119076 |
| Status : | Answered |
| Chosen Option : | D |

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| Q.27 | What is the INCORRECT pair of relation for a BJT transistor? |
| Ans | ✗ A. Base region lightly doped and least area |
| | ✗ B. Collector is largest area and moderate doping |
| | ✓ C. Collector is smallest area and largest doping |
| | ✗ D. Emitter region highest doping and moderate area |

| | |
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| Question ID : | 4410091452348 |
| Option 1 ID : | 4410095737794 |
| Option 2 ID : | 4410095737793 |
| Option 3 ID : | 4410095737795 |
| Option 4 ID : | 4410095737792 |
| Status : | Answered |
| Chosen Option : | C |

| Q.28 | If a 4-PAM system uses equally spaced levels {−3A, −A, +A, +3A}, what is the average energy per symbol? |
|---|---|
| Ans | ✗ A. $7A^2$ |
| | ✗ B. $10A^2$ |
| | ✓ C. $5A^2$ |
| | ✗ D. $A^2$ |

| | |
|---|---|
| Question ID : | 441009929839 |
| Option 1 ID : | 4410093673309 |
| Option 2 ID : | 4410093673308 |
| Option 3 ID : | 4410093673307 |
| Option 4 ID : | 4410093673306 |
| Status : | Answered |
| Chosen Option : | B |

| Q.29 | The roots of the characteristic equation are numerically equal to: |
|---|---|
| Ans | ✗ A. frequencies at which the system gain is unity (0 dB) |
| | ✗ B. either the poles or zeros, depending on the system's stability |
| | ✗ C. the zeros of the closed-loop transfer function |
| | ✓ D. the poles of the closed-loop transfer function |

| | |
|---|---|
| Question ID : | 4410091308220 |
| Option 1 ID : | 4410095164538 |
| Option 2 ID : | 4410095164537 |
| Option 3 ID : | 4410095164535 |
| Option 4 ID : | 4410095164536 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.30 | Select the correct statement related to contact potential or depletion region in the PN junction. |
| Ans | ✗ A. The diffusion process leaves behind both immobile positive ions and immobile negative ions on the p-side, creating a depletion region. |
| | ✗ B. The diffusion process leaves behind immobile positive ions on the p-side and immobile negative ions on the n-side, creating a depletion region. |
| | ✓ C. The diffusion process leaves behind immobile positive ions on the n-side and immobile negative ions on the p-side, creating a depletion region. |
| | ✗ D. The diffusion process leaves behind both immobile positive ions and immobile negative ions on the n-side, creating a depletion region. |

| | |
|---|---|
| Question ID : | 4410091452407 |
| Option 1 ID : | 4410095738026 |
| Option 2 ID : | 4410095738025 |
| Option 3 ID : | 4410095738027 |
| Option 4 ID : | 4410095738024 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.31 | A unity-feedback system has the open-loop transfer function $G(s) = \frac{K}{s(1+0.5s)}$ The designer wants to increase the gain-crossover frequency of the Bode plot without changing the phase margin. Which of the following modifications is the most appropriate? |
| Ans | ✗ A. Add an integrator in series to boost high-frequency response. |
| | ✓ B. Add a lead compensator to shift phase upward near the crossover frequency. |
| | ✗ C. Only increase K. |
| | ✗ D. Add a lag compensator to raise low-frequency gain. |

| | |
|---|---|
| Question ID : | 4410091376381 |
| Option 1 ID : | 4410095437083 |
| Option 2 ID : | 4410095437081 |
| Option 3 ID : | 4410095437080 |
| Option 4 ID : | 4410095437082 |
| Status : | Answered |
| Chosen Option : | B |

| Q.32 | When two two-port networks are connected in series at the input port and in parallel at the output port (series–parallel connection), which parameter set is most suitable for determining the overall network parameters? |
|---|---|
| Ans | ✗ A. ABCD-parameters |
| | ✗ B. Y-parameters |
| | ✓ C. h-parameters |
| | ✗ D. Z-parameters |

| | |
|---|---|
| Question ID : | 4410092267686 |
| Option 1 ID : | 4410098920643 |
| Option 2 ID : | 4410098920646 |
| Option 3 ID : | 4410098920644 |
| Option 4 ID : | 4410098920645 |
| Status : | Answered |
| Chosen Option : | C |

| Q.33 | A system have impulse response $h(t) = 5e^{-2t}\,u(t)$. What is the transfer function H(s) of the system? |
|---|---|
| Ans | ✗ A. $\frac{5}{(s-2)}$ |
| | ✗ B. $\frac{5s}{(s+2)}$ |
| | ✓ C. $\frac{5}{(s+2)}$ |
| | ✗ D. $\frac{(s-2)}{5}$ |

| | |
|---|---|
| Question ID : | 4410092267677 |
| Option 1 ID : | 4410098920608 |
| Option 2 ID : | 4410098920610 |
| Option 3 ID : | 4410098920607 |
| Option 4 ID : | 4410098920609 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.34 | In a polling-based 8051 microcontroller program, how is the Timer/Counter overflow flag (TFx) cleared? |
| Ans | ✗ A. By setting the C/T bit to 1 |
| | ✗ B. By restarting the counter |
| | ✗ C. By reading the TLx register |
| | ✓ D. By writing 0 to the TFx bit through software |

| | |
|---|---|
| Question ID : | 4410092267661 |
| Option 1 ID : | 4410098920544 |
| Option 2 ID : | 4410098920545 |
| Option 3 ID : | 4410098920546 |
| Option 4 ID : | 4410098920543 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.35 | in an 8051 microcontroller-based serial communication system operating in Mode 2 multiprocessor communication, a slave with SM2 = 1 recognizes its own address frame (TB8 = 1). What should the slave do next to receive the subsequent data frames (TB8 = 0)? |
| Ans | ✗ A. Set SM2 again after clearing RI. |
| | ✗ B. Set TB8 before the next frame is received |
| | ✗ C. Leave SM2 set for subsequent communication. |
| | ✓ D. Clear SM2 before the next data frame is received. |

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|---|---|
| Question ID : | 4410092267651 |
| Option 1 ID : | 4410098920504 |
| Option 2 ID : | 4410098920505 |
| Option 3 ID : | 4410098920503 |
| Option 4 ID : | 4410098920506 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.36 | Consider a Moore FSM designed for a sequence detector. Compared to its Mealy FSM counterpart, which of the following is true? |
| Ans | ✓ A. Moore FSM output changes only after state transitions. |
| | ✗ B. Moore FSM output depends on input as well as state. |
| | ✗ C. Moore FSM requires fewer states. |
| | ✗ D. Moore FSM has faster response to input sequences. |

| | |
|---|---|
| Question ID : | 4410091521112 |
| Option 1 ID : | 4410096007632 |
| Option 2 ID : | 4410096007633 |
| Option 3 ID : | 4410096007631 |
| Option 4 ID : | 4410096007630 |
| Status : | Answered |
| Chosen Option : | B |

| | | |
|---|---|---|
| Q.37 | A 3-phase, 4-pole induction motor operates from a 50 Hz supply and runs at 1440 rpm under load. What is the slip of the motor? | |
| Ans | ✗ A. 0.02 | |
| | ✗ B. 0.08 | |
| | ✓ C. 0.04 | |
| | ✗ D. 0.06 | |

| | |
|---|---|
| Question ID : | 4410092267635 |
| Option 1 ID : | 4410098920439 |
| Option 2 ID : | 4410098920442 |
| Option 3 ID : | 4410098920440 |
| Option 4 ID : | 4410098920441 |
| Status : | Answered |
| Chosen Option : | B |

| | | |
|---|---|---|
| Q.38 | An embedded system must execute a sensor-monitoring routine every 5 ms while allowing the processor to perform other tasks. Which function of the 8253 (Programmable Interval Timer) best supports this requirement? | |
| Ans | ✓ A. Generating periodic interrupt signals for the processor | |
| | ✗ B. Converting digital data into analog signals | |
| | ✗ C. Controlling asynchronous serial data communication | |
| | ✗ D. Performing parallel input/output data transfer with peripheral devices | |

| | |
|---|---|
| Question ID : | 4410092267659 |
| Option 1 ID : | 4410098920535 |
| Option 2 ID : | 4410098920537 |
| Option 3 ID : | 4410098920538 |
| Option 4 ID : | 4410098920536 |
| Status : | Answered |
| Chosen Option : | B |

| Q.39 | Consider a closed surface S surrounding a volume V. If $\vec{a}$ is th<br>with $\hat{n}$, the unit normal on S, the value of the integral $\oiint 3\vec{a}\,\hat{n}$ |
|---|---|
| Ans | ✗ A. 15 V |
| | ✗ B. 3 V |
| | ✗ C. 5 V |
| | ✓ D. 9 V |

| | |
|---|---|
| Question ID : | 441009678120 |
| Option 1 ID : | 4410092666647 |
| Option 2 ID : | 4410092666644 |
| Option 3 ID : | 4410092666645 |
| Option 4 ID : | 4410092666646 |
| Status : | Answered |
| Chosen Option : | B |

| Q.40 | In a fixed assignment strategy with borrowing, what typically occurs to a channel in its original cell when it is borrowed, and what constraint must be met? |
|---|---|
| Ans | ✓ A. It becomes completely locked, provided the loan causes no co-channel interference. |
| | ✗ B. It drops to a low-capacity data state, provided both cells sync their antennas. |
| | ✗ C. It remains fully active, provided the borrowing cell doubles its transmission power. |
| | ✗ D. It shifts to an emergency fallback mode, provided the original cell is empty. |

| | |
|---|---|
| Question ID : | 4410092269249 |
| Option 1 ID : | 4410098926796 |
| Option 2 ID : | 4410098926795 |
| Option 3 ID : | 4410098926798 |
| Option 4 ID : | 4410098926797 |
| Status : | Answered |
| Chosen Option : | B |

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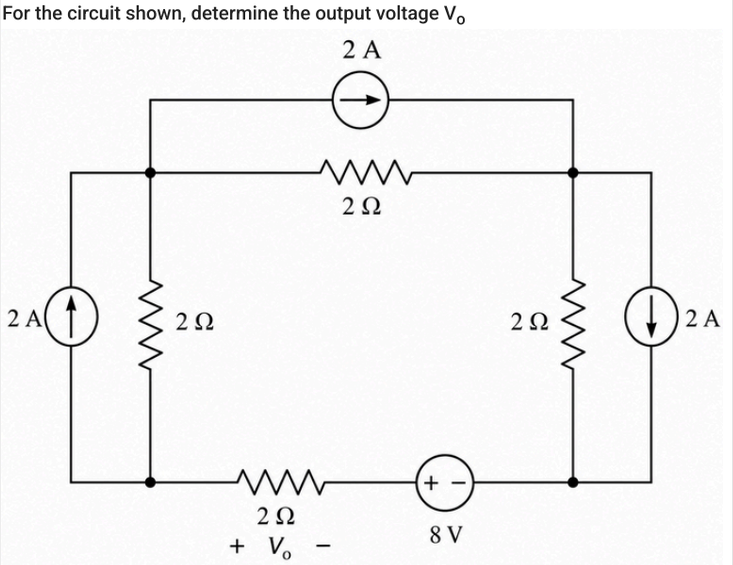
|---|---|
| Q.41 | Choose the correct statement for the mean of a random variable.<br><br>S1: The mean is also called the expected value.<br>S2: The mean value of discrete random variable x is $\sum_i x_i P_x(x_i)$ |
| Ans | ✔ A. S1 and S2 both |
| | ✘ B. S2 only |
| | ✘ C. S1 only |
| | ✘ D. Neither S1 nor S2 |

| | |
|---|---|
| Question ID : | 4410091298082 |
| Option 1 ID : | 4410095124556 |
| Option 2 ID : | 4410095124559 |
| Option 3 ID : | 4410095124558 |
| Option 4 ID : | 4410095124557 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.42 | Lag compensator is suitable for improving _____. |
| Ans | ✔ A. Steady-state performance |
| | ✘ B. High-frequency gain |
| | ✘ C. Noise immunity |
| | ✘ D. System speed |

| | |
|---|---|
| Question ID : | 4410091011686 |
| Option 1 ID : | 4410093998414 |
| Option 2 ID : | 4410093998412 |
| Option 3 ID : | 4410093998411 |
| Option 4 ID : | 4410093998413 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.43 | For the circuit shown, determine the output voltage $V_o$ |




| | |
|---|---|
| Ans | ✗ A. 10 V |
| | ✗ B. 6 V |
| | ✓ C. - 5 V |
| | ✗ D. 4 V |

| | |
|---|---|
| Question ID : | 4410092267672 |
| Option 1 ID : | 4410098920590 |
| Option 2 ID : | 4410098920589 |
| Option 3 ID : | 4410098920587 |
| Option 4 ID : | 4410098920588 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.44 | Consider a lag compensator with the transfer function $G_c(s) = (s + a)/(s + b)$, where a and b are positive real numbers with a < b. Which of the following statements is not true? |
| Ans | ✗ A. The lag compensator introduces a phase lag in the system. |
| | ✗ B. The lag compensator improves the steady-state error of the system. |
| | ✓ C. The lag compensator increases the bandwidth of the system. |
| | ✗ D. The lag compensator does not change the transient response of the system. |

| | |
|---|---|
| Question ID : | 4410091443876 |
| Option 1 ID : | 4410095704081 |
| Option 2 ID : | 4410095704082 |
| Option 3 ID : | 4410095704083 |
| Option 4 ID : | 4410095704084 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.45 | An 8051 microcontroller receives commands from a PC through its serial port. Which bit of the SCON register indicates that a new character has been received and is ready to be read? |
| Ans | ✗ A. TB8 (Transmit Bit 8) |
| | ✗ B. SM0 (Serial Mode Select 0) |
| | ✓ C. RI (Receive Interrupt flag) |
| | ✗ D. TI (Transmit Interrupt flag) |

| | |
|---|---|
| Question ID : | 4410092267650 |
| Option 1 ID : | 4410098920501 |
| Option 2 ID : | 4410098920499 |
| Option 3 ID : | 4410098920500 |
| Option 4 ID : | 4410098920502 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.46 | In a hexagonal cellular network, if an engineer uses the coordinate shift parameters i = 3 and j = 2 to determine co-channel cell locations, what is the required cluster size N to achieve frequency reuse without spatial gaps? |
| Ans | ✗ A. N = 9 |
| | ✓ B. N = 19 |
| | ✗ C. N = 7 |
| | ✗ D. N = 12 |

| | |
|---|---|
| Question ID : | 4410092269252 |
| Option 1 ID : | 4410098926808 |
| Option 2 ID : | 4410098926810 |
| Option 3 ID : | 4410098926807 |
| Option 4 ID : | 4410098926809 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.47 | A Data Acquisition System (DAS) is integrated into a real-time temperature control setup. If the sampling rate is below the Nyquist rate, which of the following issues is most likely to occur? |
| Ans | ✗ A. The system will fail to store all the acquired temperature data due to buffer overflow |
| | ✗ B. The sensor will experience drift and require frequent calibration |
| | ✗ C. The analog-to-digital converter will introduce excessive quantization noise |
| | ✓ D. High-frequency temperature variations will appear as false low-frequency signals due to aliasing |

| | |
|---|---|
| Question ID : | 4410091475894 |
| Option 1 ID : | 4410095830870 |
| Option 2 ID : | 4410095830873 |
| Option 3 ID : | 4410095830872 |
| Option 4 ID : | 4410095830871 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.48 | An IIR filter output depends on ____. |
| Ans | ✗ A. Future inputs |
| | ✓ B. Present input, past inputs, and past outputs |
| | ✗ C. Past outputs only |
| | ✗ D. Present and past inputs only |

| | |
|---|---|
| Question ID : | 4410091276736 |
| Option 1 ID : | 4410095039182 |
| Option 2 ID : | 4410095039181 |
| Option 3 ID : | 4410095039180 |
| Option 4 ID : | 4410095039179 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.49 | If the applied voltage across a resistor (Resistance = 5 ohms) is 20 volts, then what will be the value of the current flowing through the resistor? |
| Ans | ✗ A. 0.25 amperes |
| | ✓ B. 4 amperes |
| | ✗ C. 2 amperes |
| | ✗ D. 100 amperes |

| | |
|---|---|
| Question ID : | 441009620081 |
| Option 1 ID : | 4410092434443 |
| Option 2 ID : | 4410092434441 |
| Option 3 ID : | 4410092434442 |
| Option 4 ID : | 4410092434444 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.50 | A 4-bit ripple down counter is operating with a clock frequency of 16 kHz. The outputs of the flip-flops are labelled $Q_3$, $Q_2$, $Q_1$, and $Q_0$, where $Q_3$ is the most significant bit (MSB) and $Q_0$ is the least significant bit (LSB). What will be the frequency of the output from the third flip-flop ($Q_2$)? |
| Ans | ✗ A. 1 kHz |
| | ✗ B. 8 kHz |
| | ✗ C. 4 kHz |
| | ✓ D. 2 kHz |

| | |
|---|---|
| Question ID : | 4410091381340 |
| Option 1 ID : | 4410095456563 |
| Option 2 ID : | 4410095456560 |
| Option 3 ID : | 4410095456561 |
| Option 4 ID : | 4410095456562 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.51 | The numerical value of the scalar triple product $\vec{A}.(\vec{B}\times\vec{C})$ is equal to which of the following? |
| Ans | ✓ A. The volume of the parallelepiped formed by $\vec{A}$, $\vec{B}$, $\vec{C}$ |
| | ✗ B. The angle between vectors $\vec{B}$ and $\vec{C}$ |
| | ✗ C. The area of the triangle formed by $\vec{A}$, $\vec{B}$, $\vec{C}$ |
| | ✗ D. The magnitude of vector $\vec{A}$ only |

| | |
|---|---|
| Question ID : | 4410091144009 |
| Option 1 ID : | 4410094510997 |
| Option 2 ID : | 4410094510998 |
| Option 3 ID : | 4410094510996 |
| Option 4 ID : | 4410094510999 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.52 | The unit of both static and dynamic resistance of a diode is _____. |
| Ans | ✗ A. amperes |
| | ✓ B. ohms |
| | ✗ C. siemens |
| | ✗ D. volts |

| | |
|---|---|
| Question ID : | 441009323483 |
| Option 1 ID : | 4410091260117 |
| Option 2 ID : | 4410091260116 |
| Option 3 ID : | 4410091260114 |
| Option 4 ID : | 4410091260115 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.53 | Which of the following is a correct difference between an analog and a digital instrumentation system? |
| Ans | ✗ A. Analog: discrete, Digital: continuous |
| | ✗ B. Analog: discontinuous, Digital: continuous |
| | ✗ C. Analog: uses pulses, Digital: uses smooth curves |
| | ✓ D. Analog: continuous, Digital: discrete |

| | |
|---|---|
| Question ID : | 4410091516823 |
| Option 1 ID : | 4410095990691 |
| Option 2 ID : | 4410095990689 |
| Option 3 ID : | 4410095990690 |
| Option 4 ID : | 4410095990692 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.54 | Consider the following statements regarding antenna types used in satellite earth stations.<br>S1. Parabolic reflector antennas are commonly used for high-gain requirements.<br>S2. Horn antennas are typically chosen for low-frequency satellite links.<br>S3. Helical antennas are preferred for circular polarization applications.<br>Which of the above statements is correct? |
| Ans | ✗ A. S1, S2, and S3 |
| | ✗ B. S1 and S2 only |
| | ✗ C. S2 and S3 only |
| | ✓ D. S1 and S3 only |

| | |
|---|---|
| Question ID : | 4410091716594 |
| Option 1 ID : | 4410096770182 |
| Option 2 ID : | 4410096770179 |
| Option 3 ID : | 4410096770180 |
| Option 4 ID : | 4410096770181 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.55 | Which of the following is NOT a characteristic of a strong password? |
| Ans | ✗ A. Is at least 6 characters long |
| | ✗ B. Includes special characters |
| | ✗ C. Contains uppercase and lowercase letters |
| | ✓ D. Uses dictionary words |

| | |
|---|---|
| Question ID : | 44100934595 |
| Option 1 ID : | 441009137776 |
| Option 2 ID : | 441009137775 |
| Option 3 ID : | 441009137774 |
| Option 4 ID : | 441009137777 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.56 | Which type of junction is used in a Zener diode? |
| Ans | ✓ A. p-n junction |
| | ✗ B. p-p junction |
| | ✗ C. Metal-semiconductor junction |
| | ✗ D. n-n junction |

| | |
|---|---|
| Question ID : | 441009322571 |
| Option 1 ID : | 4410091256474 |
| Option 2 ID : | 4410091256476 |
| Option 3 ID : | 4410091256477 |
| Option 4 ID : | 4410091256475 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.57 | **Identify whether the given statements related to CMOS are correct.**<br><br>**Statement I: A static CMOS inverter for logic 1 input has PMOS in ON state.**<br>**Statement II: Static power is nearly zero because there's no direct path from $V_{DD}$ to ground when inputs are not switching.** |
| Ans | ✗ A. Both statements I and II are wrong |
| | ✗ B. Only statement I is correct |
| | ✓ C. Only statement II is correct |
| | ✗ D. Both statements I and II are correct |

| | |
|---|---|
| Question ID : | 4410091287610 |
| Option 1 ID : | 4410095082225 |
| Option 2 ID : | 4410095082222 |
| Option 3 ID : | 4410095082223 |
| Option 4 ID : | 4410095082224 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.58 | What happens when a jump or branch instruction is executed in the 8086 microprocessor pipeline? |
| Ans | ✓ A. Prefetch queue is flushed and refilled from the new location. |
| | ✗ B. BIU halts until EU finishes. |
| | ✗ C. Execution continues with the next instruction in queue. |
| | ✗ D. BIU is disabled. |

| | |
|---|---|
| Question ID : | 441009832065 |
| Option 1 ID : | 4410093281473 |
| Option 2 ID : | 4410093281475 |
| Option 3 ID : | 4410093281474 |
| Option 4 ID : | 4410093281476 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.59 | Given the signal $x(t) = e^{-2t}$, for $0 \leqslant t \leqslant 5$, find the Laplace transform $X(s)$ and its ROC. |
| Ans | ✗ A. $\frac{1-e^{-5(s-2)}}{s-2}$, ROC: $\mathrm{Re}(s) < 2$ |
| | ✓ B. $\frac{1-e^{-5(s+2)}}{s+2}$, ROC: Entire $s-$ plane |
| | ✗ C. $\frac{1-e^{-5(s+2)}}{s+2}$, ROC: $\mathrm{Re}(s) > -2$ |
| | ✗ D. $\frac{e^{-5(s+2)}-1}{s+2}$, ROC: $\mathrm{Re}(s) > 0$ |

| | |
|---|---|
| Question ID : | 441009290544 |
| Option 1 ID : | 4410091129085 |
| Option 2 ID : | 4410091129086 |
| Option 3 ID : | 4410091129084 |
| Option 4 ID : | 4410091129087 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.60 | Which of the following signals is a periodic signal? |
| Ans | ✗ A. $x(t) = \sin(t^2)$ |
| | ✗ B. $x(t) = e^{-3t}$ |
| | ✗ C. $x(t) = t \cdot \sin(t)$ |
| | ✓ D. $x(t) = e^{j(t+1)}$ |

| | |
|---|---|
| Question ID : | 4410091267702 |
| Option 1 ID : | 4410095003516 |
| Option 2 ID : | 4410095003515 |
| Option 3 ID : | 4410095003517 |
| Option 4 ID : | 4410095003514 |
| Status : | Answered |
| Chosen Option : | C |

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|---|---|
| Q.61 | Which property of a material does a bolometer primarily rely on to measure temperature changes? |
| Ans | ✗ A. Change in capacitance |
| | ✓ B. Change in electrical resistance |
| | ✗ C. Change in color |
| | ✗ D. Change in mechanical length |

| | |
|---|---|
| Question ID : | 4410091712252 |
| Option 1 ID : | 4410096753200 |
| Option 2 ID : | 4410096753198 |
| Option 3 ID : | 4410096753201 |
| Option 4 ID : | 4410096753199 |
| Status : | Answered |
| Chosen Option : | B |

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|---|---|
| Q.62 | Consider a discrete-time LTI system described by the difference equation: $y[n]-0.8\,y[n-1]=x[n]+0.5\,x[n-1]$<br>If the input is a unit step $x[n]=u[n]$, determine the step response $y[n]$ using the Z-transform method. |
| Ans | ✗ A. $y[n] = 1.5(1 - 0.8^n)$ |
| | ✗ B. $y[n] = 2.5(1 - 0.8^n)$ |
| | ✗ C. $y[n] = 2.5n(0.8)^n$ |
| | ✓ D. $y[n] = (7.5 - 6.5(0.8)^n)u[n]$ |

| | |
|---|---|
| Question ID : | 4410091445472 |
| Option 1 ID : | 4410095710467 |
| Option 2 ID : | 4410095710465 |
| Option 3 ID : | 4410095710468 |
| Option 4 ID : | 4410095710466 |
| Status : | Answered |
| Chosen Option : | D |

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|---|---|
| Q.63 | In structural hardware description language modeling, what fundamental element forms the basis of the design topology, and how are these elements interconnected to build a larger system? |
| Ans | ✗ A. Interconnected logical processes, which pass data using global variables. |
| | ✓ B. Pre-defined component instances, which are wired together using internal signals. |
| | ✗ C. Independent finite state machines, which communicate using asynchronous bus protocols. |
| | ✗ D. Sequential software statements, which execute inside a single continuous loop. |

| | |
|---|---|
| Question ID : | 4410092269247 |
| Option 1 ID : | 4410098926787 |
| Option 2 ID : | 4410098926789 |
| Option 3 ID : | 4410098926788 |
| Option 4 ID : | 4410098926790 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.64 | Identify the correct region/layer responsible for very high input impedance of the N-channel Depletion type MOSFET Structure. |
| Ans | ✗ A. heavily doped n region of drain |
| | ✗ B. metal contact for gate terminal |
| | ✗ C. p-type substrate |
| | ✓ D. silicon dioxide layer |

| | |
|---|---|
| Question ID : | 44100929756 |
| Option 1 ID : | 441009118488 |
| Option 2 ID : | 441009118486 |
| Option 3 ID : | 441009118485 |
| Option 4 ID : | 441009118487 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.65 | What is the key concept of the Von Neumann architecture that distinguishes it from the Harvard architecture? |
| Ans | ✓ A. It uses a single, shared memory for both program instructions and data. |
| | ✗ B. It relies exclusively on registers for all data manipulation. |
| | ✗ C. It has separate memories for program instructions and data. |
| | ✗ D. It does not have a Control Unit. |

| | |
|---|---|
| Question ID : | 4410091482530 |
| Option 1 ID : | 4410095857103 |
| Option 2 ID : | 4410095857105 |
| Option 3 ID : | 4410095857104 |
| Option 4 ID : | 4410095857106 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.66 | The inconsistency in Ampere's Law arises when the _____. |
| Ans | ✗ A. magnetic fields are absent |
| | ✓ B. electric fields change with time |
| | ✗ C. electric fields are constant |
| | ✗ D. charges are stationary |

| | |
|---|---|
| Question ID : | 441009240467 |
| Option 1 ID : | 441009940025 |
| Option 2 ID : | 441009940027 |
| Option 3 ID : | 441009940026 |
| Option 4 ID : | 441009940028 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.67 | The small signal model of the diode is comprised of: |
| Ans | ✗ A. Internal diode capacitance only |
| | ✗ B. Internal diode resistance only |
| | ✓ C. Both internal diode resistance and diode capacitance. |
| | ✗ D. High frequency parasitic wiring capacitance only. |

| | |
|---|---|
| Question ID : | 44100929927 |
| Option 1 ID : | 441009119158 |
| Option 2 ID : | 441009119157 |
| Option 3 ID : | 441009119159 |
| Option 4 ID : | 441009119160 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.68 | Which of the following best describes the main advantage of the Fast Fourier Transform (FFT) algorithm over direct DFT computation? |
| Ans | ✗ A. It eliminates the need for complex arithmetic. |
| | ✓ B. It reduces the number of computations by exploiting symmetry and periodicity. |
| | ✗ C. It uses a larger number of data points for accuracy. |
| | ✗ D. It increases the number of multiplications. |

| | |
|---|---|
| Question ID : | 4410091423713 |
| Option 1 ID : | 4410095623682 |
| Option 2 ID : | 4410095623680 |
| Option 3 ID : | 4410095623681 |
| Option 4 ID : | 4410095623679 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.69 | For a transmission line, the general propagation constant is:<br>$\gamma = \sqrt{[(R + j\omega L)(G + j\omega C)]}$.<br>If the line is distortionless, the attenuation constant α and the phase constant β are: |
| Ans | ✗ A. $\alpha = \sqrt{(RG)}, \beta = \omega / \sqrt{(LC)}$ |
| | ✓ B. $\alpha = \sqrt{(RG)}, \beta = \omega\sqrt{(LC)}$ |
| | ✗ C. $\alpha = (R/2)\sqrt{(C/L)} + (G/2)\sqrt{(L/C)}, \beta = \omega\sqrt{(LC)}$ |
| | ✗ D. $\alpha = 0, \beta = \omega\sqrt{(LC)}$ |

| | |
|---|---|
| Question ID : | 4410091287328 |
| Option 1 ID : | 4410095081105 |
| Option 2 ID : | 4410095081103 |
| Option 3 ID : | 4410095081106 |
| Option 4 ID : | 4410095081104 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.70 | Which of the following best describes the control unit in the Von Neumann architecture? |
| Ans | ✓ A. It decodes instructions and controls the execution of operations |
| | ✗ B. It connects external devices to the system bus |
| | ✗ C. It stores both data and instructions |
| | ✗ D. It performs arithmetic operations |

| | |
|---|---|
| Question ID : | 4410091477529 |
| Option 1 ID : | 4410095837503 |
| Option 2 ID : | 4410095837506 |
| Option 3 ID : | 4410095837505 |
| Option 4 ID : | 4410095837504 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.71 | Which of the following ensures message integrity in network security? |
| Ans | ✓ A. Hash functions |
| | ✗ B. Encryption |
| | ✗ C. Firewalls |
| | ✗ D. Proxies |

| | |
|---|---|
| Question ID : | 44100936014 |
| Option 1 ID : | 441009143579 |
| Option 2 ID : | 441009143578 |
| Option 3 ID : | 441009143580 |
| Option 4 ID : | 441009143581 |
| Status : | Answered |
| Chosen Option : | A |

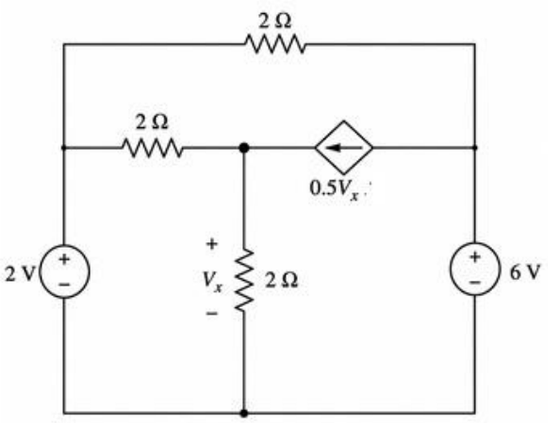
| | |
|---|---|
| Q.72 | In the 8086 microprocessor, which of the following offset registers is added to one of the locations of Extra Segment (ES) to form a 20-bit physical address? |
| Ans | ✔ A. Destination Index |
| | ✘ B. Instruction Pointer |
| | ✘ C. Source Index |
| | ✘ D. Base Pointer |

| | |
|---|---|
| Question ID : | 441009951191 |
| Option 1 ID : | 4410093758151 |
| Option 2 ID : | 4410093758149 |
| Option 3 ID : | 4410093758150 |
| Option 4 ID : | 4410093758152 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.73 | The stability of a discrete-time system depends on: |
| Ans | ✘ A. Zeros outside the unit circle |
| | ✘ B. Poles on the imaginary axis |
| | ✔ C. Poles inside the unit circle |
| | ✘ D. Zeros inside the unit circle |

| | |
|---|---|
| Question ID : | 4410091424419 |
| Option 1 ID : | 4410095626529 |
| Option 2 ID : | 4410095626530 |
| Option 3 ID : | 4410095626528 |
| Option 4 ID : | 4410095626527 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.74 | For the circuit shown, determine the value of the voltage $V_x$ . |




| | |
|---|---|
| Ans | ✗ A. 6 V |
| | ✓ B. 2 V |
| | ✗ C. 4 V |
| | ✗ D. 3 V |

| | |
|---|---|
| Question ID : | 4410092267671 |
| Option 1 ID : | 4410098920584 |
| Option 2 ID : | 4410098920585 |
| Option 3 ID : | 4410098920583 |
| Option 4 ID : | 4410098920586 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.75 | In a pressure measuring instrument using a metallic diaphragm, what causes the pointer to move over the calibrated scale? |
| Ans | ✗ A. Rotation of the diaphragm housing |
| | ✓ B. Deflection of the metallic diaphragm due to applied pressure |
| | ✗ C. Temperature change in the diaphragm |
| | ✗ D. Vibration of the pressure inlet |

| | |
|---|---|
| Question ID : | 4410091473304 |
| Option 1 ID : | 4410095821065 |
| Option 2 ID : | 4410095821063 |
| Option 3 ID : | 4410095821062 |
| Option 4 ID : | 4410095821064 |
| Status : | Answered |
| Chosen Option : | B |

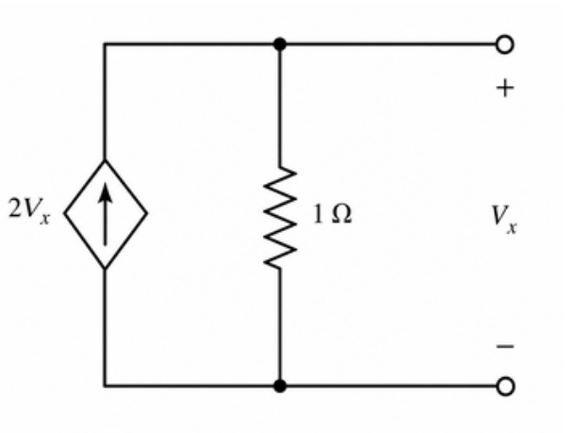
| | |
|---|---|
| Q.76 | Which component of CPU generates the control signals? |
| Ans | ✗ A. Cache Memory |
| | ✗ B. Arithmetic and Logic Unit |
| | ✗ C. Program Counter |
| | ✓ D. Microprogrammed Control Unit |

| | |
|---|---|
| Question ID : | 4410091399098 |
| Option 1 ID : | 4410095526111 |
| Option 2 ID : | 4410095526110 |
| Option 3 ID : | 4410095526112 |
| Option 4 ID : | 4410095526109 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.77 | In a superheterodyne receiver, the intermediate frequency (IF) is typically chosen to be: |
| Ans | ✗ A. A frequency higher than the carrier frequency |
| | ✗ B. Equal to the carrier frequency |
| | ✓ C. A fixed frequency that is lower than the carrier frequency |
| | ✗ D. Zero |

| | |
|---|---|
| Question ID : | 441009122959 |
| Option 1 ID : | 441009488748 |
| Option 2 ID : | 441009488745 |
| Option 3 ID : | 441009488747 |
| Option 4 ID : | 441009488746 |
| Status : | Answered |
| Chosen Option : | A |

| | |
|---|---|
| Q.78 | Norton equivalents( $I_N$, $R_N$ ) of the circuit represented in figure is: |




| | |
|---|---|
| Ans | ✗ A. $I_N$=1A, $R_N$=1Ω |
| | ✗ B. $I_N$=1A, $R_N$=−1Ω |
| | ✗ C. $I_N$=0A, $R_N$=1Ω |
| | ✓ D. $I_N$=0A, $R_N$=−1Ω |

| | |
|---|---|
| Question ID : | 4410092267682 |
| Option 1 ID : | 4410098920629 |
| Option 2 ID : | 4410098920628 |
| Option 3 ID : | 4410098920627 |
| Option 4 ID : | 4410098920630 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.79 | A resistor has a resistance of 64 Ω and a power rating of 4 W. What is the highest current it can safely carry without exceeding its power limit? |
| Ans | ✗ A. 0.30 A |
| | ✗ B. 0.20 A |
| | ✓ C. 0.25 A |
| | ✗ D. 0.35 A |

| | |
|---|---|
| Question ID : | 4410091200876 |
| Option 1 ID : | 4410094737254 |
| Option 2 ID : | 4410094737252 |
| Option 3 ID : | 4410094737253 |
| Option 4 ID : | 4410094737255 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.80 | In analog communication, what is the main benefit of representing a bandpass signal x(t) by its complex envelope $x_L(t)$ during signal analysis? |
| Ans | ✗ A. It eliminates the need for a carrier frequency in transmission. |
| | ✗ B. It increases the signal's bandwidth for better accuracy. |
| | ✓ C. It allows the use of a much lower sampling frequency than required for original bandpass signal x(t). |
| | ✗ D. It removes all noise from the modulated signal. |

| | |
|---|---|
| Question ID : | 4410091442205 |
| Option 1 ID : | 4410095701676 |
| Option 2 ID : | 4410095701674 |
| Option 3 ID : | 4410095701675 |
| Option 4 ID : | 4410095701677 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.81 | Which type of feedback is required to stabilise the operating point of the BJT CE biased circuit? |
| Ans | ✗ A. AC negative feedback |
| | ✗ B. AC positive feedback |
| | ✗ C. DC positive feedback |
| | ✓ D. DC negative feedback |

| | |
|---|---|
| Question ID : | 4410091184459 |
| Option 1 ID : | 4410094671849 |
| Option 2 ID : | 4410094671848 |
| Option 3 ID : | 4410094671850 |
| Option 4 ID : | 4410094671851 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.82 | In photolithography, which combination best describes the solubility behavior of positive and negative photoresists when exposed to ultraviolet light during the patterning process? |
| Ans | ✓ A. Positive photoresist becomes soluble, negative photoresist becomes insoluble |
| | ✗ B. Both positive and negative photoresists become soluble |
| | ✗ C. Negative photoresist becomes soluble, positive photoresist becomes insoluble |
| | ✗ D. Both positive and negative photoresists become insoluble |

| | |
|---|---|
| Question ID : | 4410092269235 |
| Option 1 ID : | 4410098926742 |
| Option 2 ID : | 4410098926741 |
| Option 3 ID : | 4410098926739 |
| Option 4 ID : | 4410098926740 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.83 | A sinusoidal AC supply voltage of frequency f is connected to the purely resistive load. If the voltage is suddenly replaced by a triangular waveform of the same RMS value and frequency, how does the average power dissipated in the resistor change? |
| Ans | ✗ A. The average power increases |
| | ✗ B. The average power becomes zero |
| | ✓ C. The average power remains the same |
| | ✗ D. The average power decreases |

| | |
|---|---|
| Question ID : | 4410092267638 |
| Option 1 ID : | 4410098920454 |
| Option 2 ID : | 4410098920453 |
| Option 3 ID : | 4410098920451 |
| Option 4 ID : | 4410098920452 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.84 | If x(at) is the time-scaled version of the signal x(t), then which of the following statements is correct? |
| Ans | ✗ A. The signal x(at) for a > 1 represents the time expansion and is wider in time than x(t). |
| | ✓ B. The signal x(at) for a < 0, a≠ -1 represents the time reversal along with the scaling. |
| | ✗ C. The signal x(at) cannot represent the time-scaled version of x(t) for any a. |
| | ✗ D. The signal x(at) for 0 < a < 1 represents the time compression which is narrower in time than x(t). |

| | |
|---|---|
| Question ID : | 4410091401382 |
| Option 1 ID : | 4410095534839 |
| Option 2 ID : | 4410095534840 |
| Option 3 ID : | 4410095534842 |
| Option 4 ID : | 4410095534841 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.85 | A remote village has abundant solar energy, negligible wind potential, and limited access to transported fuels. Which distributed generation (DG) option is the most suitable? |
| Ans | ✗ A. Diesel-generator-based microgrid with manual switching |
| | ✗ B. Centralized hydro plant with long transmission lines |
| | ✗ C. Wind-based microgrid with synchronous generator |
| | ✓ D. Photovoltaic-based microgrid with battery backup |

| | |
|---|---|
| Question ID : | 4410092267642 |
| Option 1 ID : | 4410098920470 |
| Option 2 ID : | 4410098920468 |
| Option 3 ID : | 4410098920469 |
| Option 4 ID : | 4410098920467 |
| Status : | Answered |
| Chosen Option : | D |

| | |
|---|---|
| Q.86 | Which of the following conditions facilitates the generation of a statically induced EMF? |
| Ans | ✗ A. The conductor and magnetic field are both moving together at the same speed. |
| | ✗ B. The conductor is moving, and the magnetic field is constant. |
| | ✓ C. The conductor is stationary, and the magnetic field is changing. |
| | ✗ D. The conductor is stationary, and the magnetic field is constant. |

| | |
|---|---|
| Question ID : | 441009620167 |
| Option 1 ID : | 4410092434799 |
| Option 2 ID : | 4410092434798 |
| Option 3 ID : | 4410092434796 |
| Option 4 ID : | 4410092434797 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.87 | Which of the following statements is correct, if we talk about software interrupts? |
| Ans | ✗ A. They always transfer control to a fixed memory location |
| | ✓ B. They can be used to implement system calls in an operating system |
| | ✗ C. They cannot be masked or disabled |
| | ✗ D. They are generated by hardware to signal an external event |

| | |
|---|---|
| Question ID : | 4410091434094 |
| Option 1 ID : | 4410095664910 |
| Option 2 ID : | 4410095664908 |
| Option 3 ID : | 4410095664909 |
| Option 4 ID : | 4410095664907 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.88 | A discrete-time signal x[n] has a DTFT $X(e^{j\omega})$ that is non-zero only for the frequency range $\frac{-\pi}{4} \leq \omega \leq \frac{\pi}{4}$. What is the bandwidth of this signal? |
| Ans | ✗ A. $\frac{2\pi}{3}$ |
| | ✗ B. $\frac{\pi}{4}$ |
| | ✓ C. $\frac{\pi}{2}$ |
| | ✗ D. $\pi$ |

| | |
|---|---|
| Question ID : | 4410091267548 |
| Option 1 ID : | 4410095002899 |
| Option 2 ID : | 4410095002898 |
| Option 3 ID : | 4410095002897 |
| Option 4 ID : | 4410095002896 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.89 | Digital signatures provide which of the following security features? |
| Ans | ✗ A. Confidentiality only |
| | ✗ B. Anonymity and privacy |
| | ✗ C. Data compression and error detection |
| | ✓ D. Message integrity and authentication |

| | |
|---|---|
| Question ID : | 44100936037 |
| Option 1 ID : | 441009143670 |
| Option 2 ID : | 441009143672 |
| Option 3 ID : | 441009143671 |
| Option 4 ID : | 441009143669 |
| Status : | Answered |
| Chosen Option : | D |

| Q.90 | What is the role of a Hash Function in digital signatures? |
|---|---|
| Ans | ✗ A. Compressing the message for transmission |
| | ✗ B. Managing public and private keys |
| | ✗ C. Encrypting the message |
| | ✓ D. Generating a unique fingerprint of the message |

| | |
|---|---|
| Question ID : | 44100936607 |
| Option 1 ID : | 441009145930 |
| Option 2 ID : | 441009145932 |
| Option 3 ID : | 441009145929 |
| Option 4 ID : | 441009145931 |
| Status : | Answered |
| Chosen Option : | C |

| Q.91 | How does a "Digital Signature" provide authentication and integrity? |
|---|---|
| Ans | ✗ A. By sending a physical, scanned copy of a handwritten signature. |
| | ✗ B. By creating a hash of the message and then encrypting the hash with the receiver's public key. |
| | ✓ C. By creating a hash of the message and then encrypting the hash with the sender's private key. |
| | ✗ D. By encrypting the entire message with the sender's public key. |

| | |
|---|---|
| Question ID : | 4410091489590 |
| Option 1 ID : | 4410095884400 |
| Option 2 ID : | 4410095884399 |
| Option 3 ID : | 4410095884398 |
| Option 4 ID : | 4410095884397 |
| Status : | Answered |
| Chosen Option : | B |

| Q.92 | Which of the following statements correctly describes public key cryptography? |
|---|---|
| Ans | ✗ A. It does not provide authentication, only encryption. |
| | ✗ B. It uses the same key for both encryption and decryption. |
| | ✓ C. It is slower than symmetric key cryptography due to complex mathematical operations. |
| | ✗ D. The sender and receiver must share the secret key before communication begins. |

| | |
|---|---|
| Question ID : | 44100935589 |
| Option 1 ID : | 441009141892 |
| Option 2 ID : | 441009141889 |
| Option 3 ID : | 441009141890 |
| Option 4 ID : | 441009141891 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.93 | During the silicon thermal oxidation process, which type of oxidation is preferred for growing thick masking oxide layers due to its higher growth rate, and which type is used for growing high-quality thin gate oxides because of its superior density and breakdown voltage? |
| Ans | ✗ A. Dry oxidation for both layers |
| | ✗ B. Wet oxidation for both layers |
| | ✓ C. Wet oxidation for thick masking layers, dry oxidation for thin gate oxides |
| | ✗ D. Dry oxidation for thick masking layers, wet oxidation for thin gate oxides |

| | |
|---|---|
| Question ID : | 4410092269234 |
| Option 1 ID : | 4410098926737 |
| Option 2 ID : | 4410098926738 |
| Option 3 ID : | 4410098926736 |
| Option 4 ID : | 4410098926735 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.94 | The difference equation y[n]=0.5y[n-1]+x[n] is realised using which method? |
| Ans | ✓ A. Feedback with feed-forward path |
| | ✗ B. Only feed-forward coefficients |
| | ✗ C. Zero coefficients for previous outputs |
| | ✗ D. Only scaling |

| | |
|---|---|
| Question ID : | 4410091233432 |
| Option 1 ID : | 4410094867403 |
| Option 2 ID : | 4410094867402 |
| Option 3 ID : | 4410094867405 |
| Option 4 ID : | 4410094867404 |
| Status : | Answered |
| Chosen Option : | A |

| Q.95 | Determine the laplace transform of the signal $x(t) = t\, e^{-at}\, u(t)$. |
|---|---|
| Ans | ✗ A. $\frac{1}{s^2}$ |
| | ✗ B. $\frac{1}{a}$ |
| | ✗ C. $\frac{1}{s+a}$ |
| | ✓ D. $\frac{1}{(s+a)^2}$ |

| | |
|---|---|
| Question ID : | 441009289940 |
| Option 1 ID : | 4410091126708 |
| Option 2 ID : | 4410091126710 |
| Option 3 ID : | 4410091126711 |
| Option 4 ID : | 4410091126709 |
| Status : | Answered |
| Chosen Option : | D |

| Q.96 | In a balanced star (Y) connected network where each resistor is 6 Ω, what is the value of each resistor in the equivalent delta (Δ) network? |
|---|---|
| Ans | ✗ A. 2 Ω |
| | ✗ B. 6 Ω |
| | ✓ C. 18 Ω |
| | ✗ D. 12 Ω |

| | |
|---|---|
| Question ID : | 4410092267670 |
| Option 1 ID : | 4410098920580 |
| Option 2 ID : | 4410098920581 |
| Option 3 ID : | 4410098920582 |
| Option 4 ID : | 4410098920579 |
| Status : | Answered |
| Chosen Option : | C |

| | |
|---|---|
| Q.97 | In an 8085 microprocessor, a block transfer subroutine modifies HL and DE register pairs. How should their original contents be preserved using the stack? |
| Ans | ✗ A. PUSH D<br>PUSH H<br>...<br>POP D<br>POP H |
| | ✓ B. PUSH H<br>PUSH D<br>...<br>POP D<br>POP H |
| | ✗ C. PUSH H<br>NOP<br>...<br>POP H |
| | ✗ D. PUSH H<br>PUSH D<br>...<br>POP H<br>POP D |

| | |
|---|---|
| Question ID : | 4410092267657 |
| Option 1 ID : | 4410098920528 |
| Option 2 ID : | 4410098920529 |
| Option 3 ID : | 4410098920530 |
| Option 4 ID : | 4410098920527 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.98 | In which of the following variations of RAM does the capacitor store a single bit of data? |
| Ans | ✗ A. TRAM |
| | ✗ B. SRAM |
| | ✗ C. PRAM |
| | ✓ D. DRAM |

| | |
|---|---|
| Question ID : | 4410091433981 |
| Option 1 ID : | 4410095664460 |
| Option 2 ID : | 4410095664459 |
| Option 3 ID : | 4410095664462 |
| Option 4 ID : | 4410095664461 |
| Status : | Answered |
| Chosen Option : | D |

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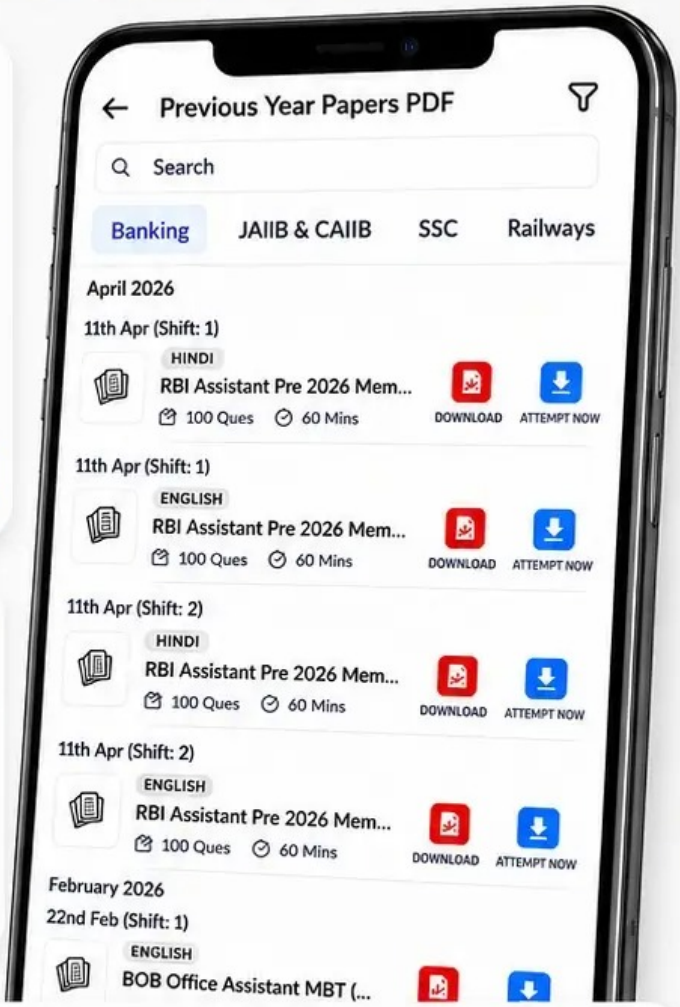


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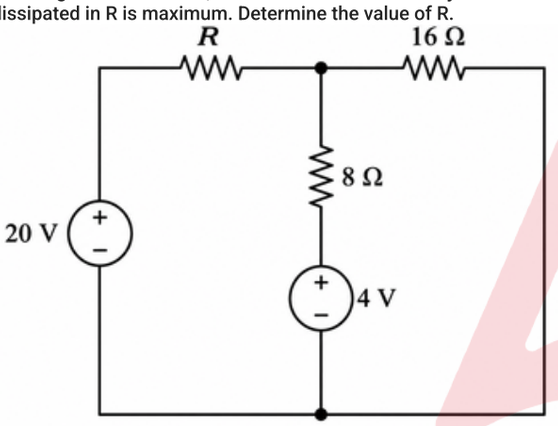
| | |
|---|---|
| Q.99 | Determine the magnitude of change in DC control voltage during VCO lock, if the input signal frequency = 20kHz, the free-running frequency of VCO, $f_0$ = 21kHz, and the voltage-to-frequency transfer coefficient of the VCO, = 4kHz/V. |
| Ans | ✗ A. 2.5 V |
| | ✓ B. 0.25 V |
| | ✗ C. 0.4 V |
| | ✗ D. 0.1 V |

| | |
|---|---|
| Question ID : | 4410091276679 |
| Option 1 ID : | 4410095038949 |
| Option 2 ID : | 4410095038947 |
| Option 3 ID : | 4410095038948 |
| Option 4 ID : | 4410095038950 |
| Status : | Answered |
| Chosen Option : | B |

| | |
|---|---|
| Q.100 | For the given DC network, the value of resistor R is adjusted so that the power dissipated in R is maximum. Determine the value of R.   |
| Ans | ✗ A. 4 Ω |
| | ✓ B. 5.33 Ω |
| | ✗ C. 24 Ω |
| | ✗ D. 12 Ω |

| | |
|---|---|
| Question ID : | 4410092267681 |
| Option 1 ID : | 4410098920623 |
| Option 2 ID : | 4410098920624 |
| Option 3 ID : | 4410098920626 |
| Option 4 ID : | 4410098920625 |
| Status : | Answered |
| Chosen Option : | B |