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Participant ID	
Participant Name	
Test Center Name	
Test Date	08/03/2022
Test Time	12:30 PM - 2:30 PM
Subject	Assistant Engineer (E and M)

Section : Mental Ability

Q.1 In the given question, one statement is given followed by two conclusions I and II. Select the correct conclusion which follows the given statements:

Statements: All the healthy persons have time for exercise. Mr Gautam, even being very busy, finds time for exercise.

Conclusions:

- I. Mr Gautam is a healthy person.
- II. Mr Gautam is a busy person.

- Ans**
- A. Only conclusion I follows
 - B. Both I and II follow
 - C. Either I or II follows
 - D. Only conclusion II follows

Question ID : 60092915004

Q.2 In the given question, one statement is given followed by two conclusions I and II. Select the correct conclusion which follows the given statements:

Statements: Only good academicians are invited in the conference. No one without sound knowledge is considered as a good academician.

Conclusions:

- I. All invited academicians in the conference have sound knowledge.
- II. Academicians who do not have sound knowledge are not invited in the conference.

- Ans**
- A. Both I and II follow
 - B. Only conclusion I follows
 - C. Either I or II follows
 - D. Only conclusion II follows

Question ID : 60092915005

Q.3 If x means -, - means + and + means x, then $40 \times 10 + 4 - 6 + 60 = ?$

- Ans
- A. 360
 - B. 560
 - C. 460
 - D. 260

Question ID : 60092915011

Q.4 If Amarjeet is walking towards North and coverage of some distance he took a turn on his right and again after travelling some distance he took a turn to his left. Finally, after walking some distance, he turns to his left again. Now, in which direction Amarjeet is moving?

- Ans
- A. East
 - B. West
 - C. South
 - D. North

Question ID : 60092915000

Q.5 Read the following information carefully and answer the question given below:

If 'P × Q' means 'P is father of Q'.

If 'P + Q' means 'P is wife of Q'.

If 'P ÷ Q' means 'P is daughter of Q'.

If 'P - Q' means 'P is son of Q'.

What will come in the place of the question mark, to establish that M is the nephew of T in the expression:

'M? R + S × T'?

- Ans
- A. X
 - B. +
 - C. -
 - D. ÷

Question ID : 60092915001

Q.6 Select the next correct number from the alternatives given as option that will continue the same pattern and replace the question mark in the given series.

1, 2, 5, 26, 677, ?

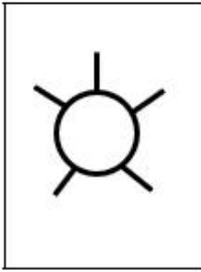
- Ans
- A. 458328
 - B. 458330
 - C. 458329
 - D. 330458

Question ID : 60092915007

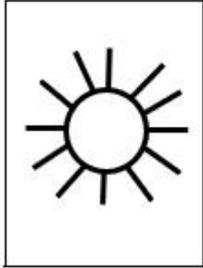
Q.7 Choose the figure which different from the rest of the figures given below.

Ans

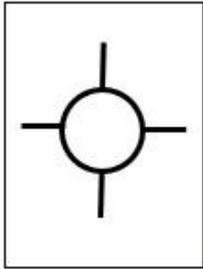
✓ A.



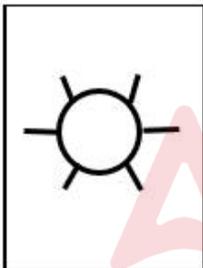
✗ B.



✗ C.



✗ D.



Question ID : 60092915006

Q.8 In a code language, CSPLF is written as EPTGL, TUBSU as VRFNA, then JOEJB will be written as:

✗ A. KHGKD

✓ B. LLIEH

✗ C. KHDKG

✗ D. DHGKK

Question ID : 60092914998

Q.9 Please read and understand the following statement carefully and find which one of the conclusions is true

Statement: $Z > Y, Y \geq X, X < W$

Conclusion I: $Z > X$

Conclusion II: $Z = X$

- Ans
- A. Only conclusion I is true
 - B. Neither conclusion I nor II is true
 - C. Only conclusion II is true
 - D. Both conclusion I and II are true

Question ID : 60092914997

Q.10 From the given pairs, all are alike in some manner and one is different. Select the one that is different.

- Ans
- A. 14:195
 - B. 18:323
 - C. 12:143
 - D. 16:123

Question ID : 60092915009

Q.11 Please read and understand the following statement carefully and find which one of the conclusions is true

Statement: $Z > A = C \geq B < L$

Conclusion I: $Z > B$

Conclusion II: $A > C$

- Ans
- A. Both conclusion I and II are true
 - B. Only conclusion II is true
 - C. Neither conclusion I nor II is true
 - D. Only conclusion I is true

Question ID : 60092914996

Q.12 Mohinder and Garima are student of 11th class and the class was tested for their intelligence and were ranked 17th and 21th respectively from the top among 41 students. Find out the ranks of Mohinder and Garima from the bottom.

- Ans
- A. 25 and 20
 - B. 25 and 21
 - C. 23 and 20
 - D. 25 and 19

Question ID : 60092914994

Q.13 If 26th March was Friday, then what will be the day of 16th November?

- Ans
- A. Wednesday
 - B. Monday
 - C. Thursday
 - D. Tuesday

Question ID : 60092914995

Q.14 Eight friends, Pawan, Kavita, Ritu, Sonam, Tapti, Veena, Wazir and Yami are eight friends and sitting on a square table of their college canteen. The order of their sitting is such that four of them are sitting at four corners of the table and rest four are sitting in the middle of each sides of the table. Those who are sitting at the four corners of the table are facing the centre of the table whereas those who are sitting in the middle of the sides of the table are facing towards outside. Pawan is facing the Centre and sitting third to the right of Veena. Tapti is facing the Centre and is not an immediate neighbour of Veena. Only one person is sitting between Veena and Wazir. Sonam is sitting second to the right of Kavita. Kavita is facing the centre. Ritu is not an immediate neighbour of Pawan.

Which of the following statement is true regarding Ritu?

- Ans
- A. Ritu faces the centre
 - B. Pawan is sitting third to left of Ritu
 - C. Ritu is sitting exactly between Tapti and Sonam
 - D. Ritu is an immediate neighbour of Veena.

Question ID : 60092914992

Q.15 Eight friends, Pawan, Kavita, Ritu, Sonam, Tapti, Veena, Wazir and Yami are eight friends and sitting on a square table of their college canteen. The order of their sitting is such that four of them are sitting at four corners of the table and rest four are sitting in the middle of each sides of the table. Those who are sitting at the four corners of the table are facing the centre of the table whereas those who are sitting in the middle of the sides of the table are facing towards outside. Pawan is facing the Centre and sitting third to the right of Veena. Tapti is facing the Centre and is not an immediate neighbour of Veena. Only one person is sitting between Veena and Wazir. Sonam is sitting second to the right of Kavita. Kavita is facing the centre. Ritu is not an immediate neighbour of Pawan.

What is position of Tapti with respect to Veena.

- Ans
- A. Third to the left
 - B. Fourth to the left
 - C. Second to the left
 - D. Second to the right

Question ID : 60092914993

Q.16 Randeep said to Priya that "the brother of yours only daughter is the brother of my wife". How is the Priya related with Randeep?

- Ans
- A. Mother
 - B. Mother-in-law
 - C. Aunt
 - D. Sister

Question ID : 60092915002

Q.17 Select the option that is related to the third word in the same way as the second word is related to the first word.

Airplane: Runway:: Automobile : _____

- Ans**
- A. Track
 - B. Path
 - C. Highway
 - D. Engine

Question ID : 60092915003

Q.18 Understand the coding process with the coding of 'LAYOUT' which is encrypted as 'ALOYTU'. Choose the right option for 'REVIEW' coded in the same form?

- Ans**
- A. EWIVRE
 - B. ERVIWE
 - C. ERIVWE
 - D. WEIVER

Question ID : 60092914999

Q.19 Select the option that is related to the third number in the same way as the second word is related to the first word.

624:12::468:?

- Ans**
- A. 8
 - B. 9
 - C. 10
 - D. 6

Question ID : 60092915008

Q.20 Find approximate value.

$$(21.99 + 8.01) \div 0.999 \times 2.999 + 40.999 + 559.001 = ?$$

- Ans**
- A. 710
 - B. 623
 - C. 617
 - D. 690

Question ID : 60092915010

Q.1 Samudrayaan mission is India's first unique manned ocean mission that aims to send men into the deep sea in a submersible vehicle for deep-ocean exploration and mining of rare minerals. Up to what depth will this manned mission be sent into the sea?

- Ans A. 5500 metres
 B. 3000 metres
 C. 5000 metres
 D. 4000 metres

Question ID : 60092915012

Q.2 Which of the following folk dances is popular in the state of Tripura?

- Ans A. Gaur Maria
 B. Shigmo
 C. Hojagiri
 D. Ghumar

Question ID : 60092915018

Q.3 Who is the present Chairman of Recruitment and Assessment Center, DRDO?

- Ans A. Dr. P. Rodriguez
 B. Sh. Bhanu Pratap Sharma
 C. Dr. S. Christopher
 D. Sh. R. K. Garg

Question ID : 60092915023

Q.4 Central bank broadly uses two categories of instruments of credit control viz. quantitative methods and qualitative or selective methods of credit control. Which of the following is a qualitative method of credit control?

- Ans A. Open market operations
 B. Variable legal reserve ratio
 C. Bank rate policy
 D. Credit rationing

Question ID : 60092915025

Q.5 Who is the cabinet minister of Ministry of Tribal Affairs in India?

- Ans A. Shri Piyush Goyal
 B. Shri Pralhad Joshi
 C. Dr. Virendra Kumar
 D. Shri Arjun Munda

Question ID : 60092915029

Q.6 Which of the following is correct about National Housing Bank (NHB)?

- Ans A. The National Housing Policy, 1995 envisaged the setting up of NHB as the Apex level institution for housing
- B. NHB was set up on July 9, 1988 under the National Housing Bank Act, 1997
- C. The Head Office of NHB is at Mysore
- D. Offices of NHB are in Mumbai, Hyderabad, Bengaluru, Kolkata, Ahmedabad, Bhopal, Chennai, Lucknow and Guwahati

Question ID : 60092915026

Q.7 This policy is mostly used in times of high unemployment and recession. It leads to the government lowering taxes and spending more, or one of the two. This Policy is _____.

- Ans A. Expansionary fiscal policy
- B. Monetary policy
- C. neutral policy
- D. Contractionary fiscal policy

Question ID : 60092915027

Q.8 According to 2011 census, which is the fourth highest spoken language in India?

- Ans A. Bengali
- B. Marathi
- C. Tamil
- D. Telugu

Question ID : 60092915022

Q.9 जलियांवाला बाग हत्याकांड उस समय हुआ जब 13 अप्रैल 1919 को हजारों भारतीय अमृतसर के जलियांवाला बाग में इकट्ठा हुए थे। इस सभा में कौन सा त्योहार मनाया जा रहा था?

- Ans A. गुरु नानक जयंती
- B. बैशाखी
- C. होली
- D. लोहड़ी

Question ID : 60092915016

Q.10 भारतीय खेल प्राधिकरण (SAI) द्वारा 8-14 वर्ष के आयु वर्ग के बच्चों में खेल प्रतिभाओं को स्कूल के दौरान ही खोजने और उन्हें वैज्ञानिक प्रशिक्षण प्रदान करके भविष्य की पदक आशाओं में पोषित करने के लिए कौन सी योजना लागू की जा रही है?

- Ans A. उत्कृष्टता केंद्र योजना (COX)
- B. राष्ट्रीय खेल प्रतिभा प्रतियोगिता योजना (NSTC)
- C. विशेष क्षेत्र खेल योजना (SAG)
- D. साई प्रशिक्षण केंद्र योजना (STC)

Question ID : 60092915015

Q.11 In which state did the classical dance Kuchipudi originate?

- Ans
- A. Karnataka
 - B. Tamil Nadu
 - C. Maharashtra
 - D. Andhra Pradesh

Question ID : 60092915017

Q.12 Which country ranked first in the Human Development Index Report 2020 released by the UNO?

- Ans
- A. Australia
 - B. Germany
 - C. Norway
 - D. Denmark

Question ID : 60092915021

Q.13 During the British Rule how many Princely States were not directly under the control of the British? These were Kingdoms or 'Riyasats' under Indian rulers or Princes.

- Ans
- A. 560
 - B. 200
 - C. 470
 - D. 390

Question ID : 60092915028

Q.14 In which city was India's first ever e-waste clinic set up?

- Ans
- A. Bhopal
 - B. Pune
 - C. Jaipur
 - D. Bengaluru

Question ID : 60092915013

Q.15 Identify the correct match.

- Ans
- A. Khilafat Movement launched – 1927
 - B. Gandhi-Irwin Pact – 1931
 - C. Lucknow Pact signed between Congress and Muslim League – 1920
 - D. Boycott of Simon Commission – 1930

Question ID : 60092915024

Q.16 Headquarters of Indian Institute of Astrophysics is at _____.

- Ans A. Guwahati
 B. Mumbai
 C. Bengaluru
 D. Hyderabad

Question ID : 60092915030

Q.17 In which year did IFCI (Industrial Financial Corporation of India) become a company under the Indian Government?

- Ans A. 2015
 B. 2005
 C. 2010
 D. 1995

Question ID : 60092915020

Q.18 जल निकायों की मरम्मत, नवीनीकरण और बहाली (RRR) के लिए जल संसाधन मंत्रालय के कार्यक्रम के तहत वित्त पोषण के लिए पात्र होने के लिए जल निकायों का सिंचाई कृषि योग्य कमांड क्षेत्र (irrigation culturable command area) कितना होना चाहिए?

- Ans A. 3000 हेक्टेयर तक
 B. 5000 हेक्टेयर तक
 C. 2000 हेक्टेयर तक
 D. 1000 हेक्टेयर तक

Question ID : 60092915031

Q.19 As on November 2021, what was the highest score of India in T20 international matches?

- Ans A. 205
 B. 214
 C. 260
 D. 235

Question ID : 60092915014

Q.20 कर्नाटक संगीत में निम्नलिखित में से किसका प्रयोग आमतौर पर नहीं किया जाता है?

- Ans A. बांसुरी
 B. वायलिन
 C. तबला
 D. वीणा

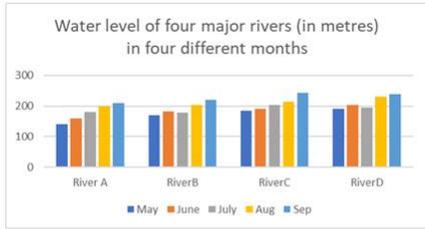
Question ID : 60092915019

Q.1 When the radius of an sphere is increased by 5%, what percentage increase takes place in the surface area of sphere?

- Ans
- A. 10.75%
 - B. 11.5%
 - C. 10.25%
 - D. 10.55%

Question ID : 60092915051

Q.2 Refer to the given graph and answer the following question.



	May	June	July	Aug	Sep
River A	140	160	180	200	210
River B	170	182	179	203	220
River C	185	190	204	214	243
River D	190	204	196	230	240

If the water level of River A in June decreases by 10%, then what will be the water level (in metres) of River A in June?

- Ans
- A. 135
 - B. 152
 - C. 138
 - D. 144

Question ID : 60092915048

Q.3 The reflex angle between the hands of a clock at 09:45 is:

- Ans
- A. $337\frac{1}{2}^\circ$
 - B. $338\frac{1}{2}^\circ$
 - C. $336\frac{1}{2}^\circ$
 - D. $335\frac{1}{2}^\circ$

Question ID : 60092915043

Q.4 The HCF of 0.032, 0.144, 0.368 and 1.056 is:

- Ans
- A. 0.016
 - B. 0.015
 - C. 0.012
 - D. 0.031

Question ID : 60092915034

Q.5 If the income of Shyam is 24% more than that of Kapil, then the income of Kapil is what percentage less than that of Shyam?

- Ans
- A. $19\frac{12}{31}\%$
 - B. $18\frac{12}{31}\%$
 - C. $19\frac{13}{31}\%$
 - D. $19\frac{11}{31}\%$

Question ID : 60092915037

Q.6 The average speed of a car is 80 km/hr. The speed of the car first decreased by 25% and then increased by 30%. What is the new average speed of the car?

- Ans
- A. 56 km/hr
 - B. 78 km/hr
 - C. 75 km/hr
 - D. 65 km/hr

Question ID : 60092915036

Q.7 The simple interest for a sum of Rs. 1750 for 3 years is Rs. 45 more than the simple interest for Rs. 2375 for 2 years. Find the rate of interest.

- Ans
- A. 17%
 - B. 15%
 - C. 9%
 - D. 16%

Question ID : 60092915042

Q.8 6 men can do a piece of work in 10 days, 8 women can do it in 18 days and 15 children can do it in 24 days. In how many days can 10 men, 12 women and 18 children together complete the piece of work?

- Ans
- A. $\frac{12}{3}$
 - B. $\frac{11}{3}$
 - C. $\frac{10}{3}$
 - D. $\frac{14}{3}$

Question ID : 60092915044

Q.9 On selling an article at a certain price, a man gains 15%. On selling the same article at triple the price, the gain percentage is:

- Ans
- A. 255%
 - B. 245%
 - C. 235%
 - D. 225%

Question ID : 60092915038

Q.10 An error of 5% in excess is made while measuring the side of a square. The percentage of error in the calculated area of the square is:

- Ans
- A. 11.5%
 - B. 10.5%
 - C. 11.25%
 - D. 10.25%

Question ID : 60092915049

Q.11 Solve the following.

$$0.\overline{4} + 0.3\overline{1} + 0.52\overline{4} = ?$$

- Ans
- A. 2.27
 - B. 1.28
 - C. 5.27
 - D. 4.26

Question ID : 60092915033

Q.12 If $\frac{5}{a} = \frac{7}{b} = \frac{24}{c} = \frac{12}{11}$, then $a + b + c = ?$

- Ans
- A. 36
 - B. 35
 - C. 32
 - D. 33

Question ID : 60092915039

Q.13 For a sphere of radius 5 cm, what percentage of the numerical value of its volume would be the numerical value of the surface area?

- Ans
- A. 50%
 - B. 60%
 - C. 25%
 - D. 75%

Question ID : 60092915050

Q.14 If $(\sqrt{6} + 15)^2 = (?)^{1/3} + 2\sqrt{1350} + 222$, then find the value of the question mark (?).

- Ans
- A. 349
 - B. 512
 - C. 216
 - D. 729

Question ID : 60092915032

Q.15 Study the given table and answer the following question.

Number of voters at 5 different polling stations in a metro city

Polling Stations	A	B	C	D	E
Total registered votes	2400	1650	2800	2600	1500
Percentage of people who voted	75%	65%	80%	85%	70%

What percentage of the total number of registered voters cast invalid votes at polling station 'E' if the number of invalid votes cast at polling station 'E' was 8% of the number of votes cast?

- Ans
- A. 6.5%
 - B. 7.5%
 - C. 8.6%
 - D. 5.6%

Question ID : 60092915046

Q.16 Out of 11 persons, 10 persons spent Rs. 120 each for their lunch in a restaurant. The 11th one spends Rs. 50 more than the average expenditure of all the 10. The total money spent by all of them was:

- Ans**
- A. Rs. 1475
 - B. Rs. 1175
 - C. Rs. 1275
 - D. Rs. 1370

Question ID : 60092915035

Q.17 A sum at 5% simple interest per annum amounts to Rs. 4170 in 4 years. Find the sum.

- Ans**
- A. Rs. 3475
 - B. Rs. 3025
 - C. Rs. 3375
 - D. Rs. 3256

Question ID : 60092915041

Q.18 A company constituted a committee of 33 representatives. The ratio of the number of men to the number of women is 8 : 3. Find the number of women to be added to the committee so that the ratio of the number of men to the number of women becomes 6 : 5.

- Ans**
- A. 10
 - B. 8
 - C. 9
 - D. 11

Question ID : 60092915040

Q.19 Study the given table and answer the following question.

Number of voters at 5 different polling stations in a metro city

Polling Stations	A	B	C	D	E
Total registered votes	2400	1650	2800	2600	1500
Percentage of people who voted	75%	65%	80%	85%	70%

The number of people who did not vote at polling station 'A' is what percentage more than the number of people who did not vote at polling station 'C'?

- Ans**
- A. 6.28%
 - B. 7.14%
 - C. 6.14%
 - D. 7.28%

Question ID : 60092915047

Q.20 Roy and Tiwari can do a piece of work in 16 days and 20 days, respectively. Both begin together, but after a certain time, Roy leaves due to ill health. Now, Tiwari finishes the remaining work in 15 days. After how many days did Roy leave?

- Ans
- A. $5\frac{2}{9}$
 - B. $3\frac{2}{9}$
 - C. $2\frac{2}{9}$
 - D. $4\frac{2}{9}$

Question ID : 60092915045

Section : General English

Q.1 Select the most appropriate meaning of the underlined proverb.

It is my brother who handles all odd jobs at home. He is a Jack of all trades.

- Ans
- A. A person who can do passable work in many areas
 - B. A person who can please everyone
 - C. A person who helps everyone
 - D. A person who is not good at many trades

Question ID : 60092915064

Q.2 Select the most appropriate option to fill in the blank.

I _____ for a long time yesterday.

- Ans
- A. slept
 - B. will be sleeping
 - C. sleep
 - D. am sleeping

Question ID : 60092915058

Q.3 Select the option that expresses the given sentence in active voice.

Why has this room not been cleaned by anyone?

- Ans
- A. Why has no one cleaned this room?
 - B. Why did no one cleaned this room?
 - C. Why had no one cleaned this room?
 - D. Why does no one cleaned this room?

Question ID : 60092915052

Q.4 Select the most appropriate synonym of the given word.

Prominent

- Ans
- A. Invisible
 - B. Ordinary
 - C. Outstanding
 - D. Inconspicuous

Question ID : 60092915061

Q.5 Select the most appropriate meaning of the underlined idiom.
Keep all your worries at bay and enjoy this party.

- Ans
- A. To do meditation
 - B. To prevent something from affecting one
 - C. To worry a lot about something
 - D. To stop someone from enjoying

Question ID : 60092915063

Q.6 Select the most appropriate option to fill in the blank.

We received graduation degrees at the _____ ceremony.

- Ans
- A. convocation
 - B. consecration
 - C. award
 - D. inauguration

Question ID : 60092915065

Q.7 Select the option that expresses the given sentence in active voice.

The project has been completed before time because of the hard work of the workers.

- Ans
- A. The workers have completed the project before time because of their hard work.
 - B. The workers have complete the project before time because of their hard work.
 - C. The workers are completing the project before time because of their hard work.
 - D. The workers had completed the project before time because of their hard work.

Question ID : 60092915053

Q.8 Select the most appropriate option to fill in the blanks.

_____ I did research _____ childhood behaviour, these are the points I came _____ which may be useful _____ parents.

- Ans
- A. After, in, out, to
 - B. After, on, across, to
 - C. Before, about, into, by
 - D. Later, for, by, by

Question ID : 60092915054

Q.9 Select the option that expresses the given sentence in direct speech.

The boss advised the new employee that he should not be wasting his time in the canteen.

- Ans A. The boss said to the new employee, "I should not be wasting your time in the canteen."
 B. The boss said to the new employee, "You should not be wasting your time in the canteen."
 C. The boss said to the new employee, "You should not waste your time in the canteen."
 D. The boss said to the new employee, "You should not be wasting my time in the canteen."

Question ID : 60092915055

Q.10 Select the most appropriate ANTONYM of the given word.

Archaic

- Ans A. Modern
 B. Old
 C. Ancient
 D. Unfashionable

Question ID : 60092915059

Q.11 Select the most appropriate option to fill in the blank.

Do you think Mom _____ angry because we are late?

- Ans A. was going to be
 B. was being
 C. had been
 D. will be

Question ID : 60092915057

Q.12 Select the grammatically correct sentence from the given options.

- Ans A. I am liking to eat samosas.
 B. Cruelty is an offence to legal animals.
 C. Many handmade items are became popular these days.
 D. Artificial intelligence will never be able to completely replace humans.

Question ID : 60092915066

Q.13 Select the most appropriate synonym of the given word.

Circumvent

- Ans A. Encourage
 B. Evade
 C. Confront
 D. Assist

Question ID : 60092915060

Q.14 Select the option that expresses the given sentence in reported speech.

I said to my son, "Finish your homework quickly."

- Ans
- A. I told my son finish your homework quickly.
 - B. I told my son to finish my homework quickly.
 - C. I told my son to finish his homework quickly.
 - D. I told my son to finish your homework quickly.

Question ID : 60092915056

Q.15 Select the most appropriate synonym of the given word.

Supercilious

- Ans
- A. Meek
 - B. Haughty
 - C. Humble
 - D. Modest

Question ID : 60092915062



Comprehension:

Read the given passage and answer the questions that follow.

I recently moved from home to my college campus, getting back to offline mode as the pandemic gives us a break. All the people I had been seeing for the past one year as Google icons, WhatsApp DPs, and Instagram friends came to reality like still pictures turning into motion.

We all were elated to come back to the normal world, meeting in person and chatting about things beyond our studies. However, to my surprise, I experienced that people are different in their online persona and in-person identity. I had heard about people being different on social media and in real life, but experienced it first hand on the campus after a year of knowing people just through online mode. Reality struck me even harder when this observation was shared by a classmate about me.

We were having a gala time in her room and she happily exclaimed that, "I never thought you would be so jovial from the little conversation we had on WhatsApp!" I was shocked to know about my 'online rude' side.

I immediately checked the WhatsApp chats that we had exchanged and she was not wrong. I sounded too formal for a conversation between classmates. It was so straightforward that one could obviously take it as rude because he/she may be expecting a light conversation. This incident left me pondering how online mode can be so convenient, yet at the same time cause misunderstandings. We lose a personal touch.

I shifted from a corporate job to higher studies. My default mode to answer a message or mail from an unknown person remains formal but in person, I can be very different: cracking jokes over coffee or discussing the new Netflix drama. This might not happen in online mode. At home, we are usually preoccupied with familiar people and their thoughts. Connecting with each other over campus walks, sports and discussions while we wait for the professors brings out a different side in each of us. A heated group discussion on chats gets resolved quickly over a meet-up at lunch or corridors. Online mode does not provide that space. The identity that appears on the online icons can be far from their real self. Emoticons cannot be a replacement of the body language and expressions on your face. Emoticons have straight one meaning while expressions vary. Though the pandemic has given us ample opportunities to connect with the world from the comfort of the four walls, going out and meeting people in person will always have its own advantage and charm.

SubQuestion No : 16

Q.16 What impression did the author give to people when she was online?

- Ans A. That she was a very sensitive person
- B. That she was curt
- C. That she was careless
- D. That she was a cheerful person

Question ID : 60092915070

Comprehension:

Read the given passage and answer the questions that follow.

I recently moved from home to my college campus, getting back to offline mode as the pandemic gives us a break. All the people I had been seeing for the past one year as Google icons, WhatsApp DPs, and Instagram friends came to reality like still pictures turning into motion.

We all were elated to come back to the normal world, meeting in person and chatting about things beyond our studies. However, to my surprise, I experienced that people are different in their online persona and in-person identity. I had heard about people being different on social media and in real life, but experienced it first hand on the campus after a year of knowing people just through online mode. Reality struck me even harder when this observation was shared by a classmate about me.

We were having a gala time in her room and she happily exclaimed that, "I never thought you would be so jovial from the little conversation we had on WhatsApp!" I was shocked to know about my 'online rude' side.

I immediately checked the WhatsApp chats that we had exchanged and she was not wrong. I sounded too formal for a conversation between classmates. It was so straightforward that one could obviously take it as rude because he/she may be expecting a light conversation. This incident left me pondering how online mode can be so convenient, yet at the same time cause misunderstandings. We lose a personal touch.

I shifted from a corporate job to higher studies. My default mode to answer a message or mail from an unknown person remains formal but in person, I can be very different: cracking jokes over coffee or discussing the new Netflix drama. This might not happen in online mode. At home, we are usually preoccupied with familiar people and their thoughts. Connecting with each other over campus walks, sports and discussions while we wait for the professors brings out a different side in each of us. A heated group discussion on chats gets resolved quickly over a meet-up at lunch or corridors. Online mode does not provide that space. The identity that appears on the online icons can be far from their real self. Emoticons cannot be a replacement of the body language and expressions on your face. Emoticons have straight one meaning while expressions vary. Though the pandemic has given us ample opportunities to connect with the world from the comfort of the four walls, going out and meeting people in person will always have its own advantage and charm.

SubQuestion No : 17

Q.17 How did her working in corporate office affect her messaging?

Ans ✓ A. She used formal language while answering mails.

✗ B. She would answer all the mails.

✗ C. She was punctual in answering mails.

✗ D. She hardly read the mails she was answering.

Question ID : 60092915072

Comprehension:

Read the given passage and answer the questions that follow.

I recently moved from home to my college campus, getting back to offline mode as the pandemic gives us a break. All the people I had been seeing for the past one year as Google icons, WhatsApp DPs, and Instagram friends came to reality like still pictures turning into motion.

We all were elated to come back to the normal world, meeting in person and chatting about things beyond our studies. However, to my surprise, I experienced that people are different in their online persona and in-person identity. I had heard about people being different on social media and in real life, but experienced it first hand on the campus after a year of knowing people just through online mode. Reality struck me even harder when this observation was shared by a classmate about me.

We were having a gala time in her room and she happily exclaimed that, "I never thought you would be so jovial from the little conversation we had on WhatsApp!" I was shocked to know about my 'online rude' side.

I immediately checked the WhatsApp chats that we had exchanged and she was not wrong. I sounded too formal for a conversation between classmates. It was so straightforward that one could obviously take it as rude because he/she may be expecting a light conversation. This incident left me pondering how online mode can be so convenient, yet at the same time cause misunderstandings. We lose a personal touch.

I shifted from a corporate job to higher studies. My default mode to answer a message or mail from an unknown person remains formal but in person, I can be very different: cracking jokes over coffee or discussing the new Netflix drama. This might not happen in online mode. At home, we are usually preoccupied with familiar people and their thoughts. Connecting with each other over campus walks, sports and discussions while we wait for the professors brings out a different side in each of us. A heated group discussion on chats gets resolved quickly over a meet-up at lunch or corridors. Online mode does not provide that space. The identity that appears on the online icons can be far from their real self. Emoticons cannot be a replacement of the body language and expressions on your face. Emoticons have straight one meaning while expressions vary. Though the pandemic has given us ample opportunities to connect with the world from the comfort of the four walls, going out and meeting people in person will always have its own advantage and charm.

SubQuestion No : 18

Q.18 How did reality of meeting people shock the writer?

- Ans A. She did not like to meet people and interact with them offline
- B. She realised that people she met online were very different from what they seemed to be in reality.
- C. People on online platforms were extremely polite.
- D. There were no heated discussions while they were online.

Question ID : 60092915069

Comprehension:

Read the given passage and answer the questions that follow.

I recently moved from home to my college campus, getting back to offline mode as the pandemic gives us a break. All the people I had been seeing for the past one year as Google icons, WhatsApp DPs, and Instagram friends came to reality like still pictures turning into motion.

We all were elated to come back to the normal world, meeting in person and chatting about things beyond our studies. However, to my surprise, I experienced that people are different in their online persona and in-person identity. I had heard about people being different on social media and in real life, but experienced it first hand on the campus after a year of knowing people just through online mode. Reality struck me even harder when this observation was shared by a classmate about me.

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SubQuestion No : 19

Q.19 In what context does the writer use the expression 'came to reality like still pictures turning into motion'?

- Ans**
- A. When she was working from home
 - B. When she actually met the people she had seen only on online platforms
 - C. When she left her office job to take up higher education
 - D. When all her friends gathered in her room at the campus

Question ID : 60092915068

Comprehension:

Read the given passage and answer the questions that follow.

I recently moved from home to my college campus, getting back to offline mode as the pandemic gives us a break. All the people I had been seeing for the past one year as Google icons, WhatsApp DPs, and Instagram friends came to reality like still pictures turning into motion.

We all were elated to come back to the normal world, meeting in person and chatting about things beyond our studies. However, to my surprise, I experienced that people are different in their online persona and in-person identity. I had heard about people being different on social media and in real life, but experienced it first hand on the campus after a year of knowing people just through online mode. Reality struck me even harder when this observation was shared by a classmate about me.

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SubQuestion No : 20

Q.20 Which of the following is NOT mentioned in the passage as a disadvantage of online interactions?

- Ans** A. One cannot explain oneself clearly during online conversations
 B. Body language cannot be conveyed.
 C. Messages are sent without much thought.
 D. Misunderstandings cannot be resolved easily.

Question ID : 60092915071

Section : General Hindi

Q.1 'हरिः +शेते' की संधि है-

- Ans** A. हरिशेते
 B. हरिशेते
 C. हरीशेते
 D. हरीशेते

Question ID : 60092915076

Q.2 'मैं सुकुमारी, नाथ बन जोगू ।

तुम्हें उचित तप, मो कहँ भोगू॥'

पंक्तियों में अलंकार है -

- Ans A. काकुव क्रोक्ति
 B. शब्द श्लेष
 C. श्लेषाश्रित वक्रोक्ति
 D. वीप्सा अलंकार

Question ID : 60092915080

Q.3 'अन्न का कन्न करना' मुहावरे का अर्थ बताने वाले विकल्प का चयन कीजिए-

- Ans A. पुरानी वस्तु से कोई नई वस्तु बनाना
 B. खाने की चीज़ में कुछ मिला देना
 C. नया व्यंजन बनाना
 D. अच्छी चीज़ को खराब करना

Question ID : 60092915084

Q.4 निम्न में से 'वृष्टि' का विलोम शब्द है-

- Ans A. अवृष्टि
 B. अनावृष्टि
 C. अनुवृष्टि
 D. अतिवृष्टि

Question ID : 60092915081

Q.5 'विमल' का समास विग्रह है-

- Ans A. मैल जमा हो जहाँ पर
 B. सफाई हो गई हो जहाँ की
 C. मैल से युक्त
 D. हटगया मैल जहाँ से

Question ID : 60092915079

Q.6 भूतकाल के किस भेद में 'ने' विभक्ति का प्रयोग नहीं होता-

- Ans A. संदिग्धभूत
 B. अपूर्णभूत
 C. आसन्नभूत
 D. पूर्णभूत

Question ID : 60092915073

Q.7 'सिंहासनारूढ़' का समास विग्रह है-

- Ans A. सिंहासन पर आरूढ़
 B. सिंहासन को आरूढ़
 C. सिंहासन में आरूढ़
 D. सिंहासन के लिए आरूढ़

Question ID : 60092915078

Q.8 'आदमी बसे और सोना कसे' लोकोक्ति निम्न में से किस संदर्भ में प्रयुक्त होती है?

- Ans A. उपयोगिता के
 B. परखने के
 C. प्रयोग के
 D. आयु के

Question ID : 60092915085

Q.9 संज्ञा अथवा विशेषण के साथ क्रिया जोड़ने से जिस संयुक्त क्रिया का निर्माण होता है वह है-

- Ans A. शक्तिबोधक
 B. निश्चयबोधक
 C. आवश्यकताबोधक
 D. नामबोधक

Question ID : 60092915074

Q.10 'साइकिल रहने पर वह बाज़ार जाए।' वाक्य उदाहरण है-

- Ans A. सामान्य भविष्य
 B. हेतुहेतुमद्भविष्य
 C. संभाव्य भविष्य
 D. सामान्य वर्तमान

Question ID : 60092915086

Q.11 'आदिष्ट' का विलोम है-

- Ans A. निर्विष्ट
 B. अनादिष्ट
 C. दिष्ट
 D. निषिद्ध

Question ID : 60092915082

Q.12 'अंगारों पर पैर रखना' का अर्थ है--

- Ans A. खतरनाक कार्य करना
 B. कठिन दुःख सहना
 C. कड़ी धूप में चलना
 D. जलन के कारण कुढ़ना

Question ID : 60092915083

Q.13 'मनः + ताप' की संधि है-

- Ans A. मनःताप
 B. मनाताप
 C. मंताप
 D. मनस्ताप

Question ID : 60092915075

Q.14 'रजनी मैदान में खेलती होगी।' वाक्य उदाहरण है--

- Ans A. सामान्य वर्तमान का
 B. तात्कालिक वर्तमान का
 C. सम्भाव्य वर्तमान का
 D. संदिग्ध वर्तमान का

Question ID : 60092915087

Q.15 'षट् + आनन' की संधि है-

- Ans A. षटआनन
 B. षडानन
 C. षटानन
 D. षडआनन

Question ID : 60092915077

Comprehension:

रमणीयता और नित्य नूतनता अन्योन्याश्रित हैं, रमणीयता के अभाव में कोई भी चीज़ मान्य नहीं होती। नित्यनूतनता किसी भी सर्जक की मौलिक उपलब्धि की प्रमाणिकता सूचित करती है और उसकी अनुपस्थिति में कोई भी चीज़ वस्तुतः जनता व समाज के द्वारा स्वीकार्य नहीं होती। सड़ी-गली मान्यताओं से जकड़ा हुआ समाज जैसे आगे बढ़ नहीं पाता, वैसे ही पुरानी रीतियों और शैलियों की परम्परागत लीक पर चलने वाली भाषा भी जनचेतना को गीत देने में प्रायः असमर्थ ही रह जाती है। भाषा समूची युगचेतना की अभिव्यक्ति का एक सशक्त माध्यम है और ऐसी सशक्तता तभी वह अर्जित कर सकती है, जब वह अपने युगानुकूल सही मुहावरों को ग्रहण कर सके। भाषा सामाजिक भाव-प्रकटीकरण की सुबोधता के लिए ही उद्दिष्ट है, उसके अतिरिक्त उसकी ज़रूरत ही सोची नहीं जाती। इस उपयोगिता की सार्थकता समसामयिक सामाजिक चेतना में प्राप्त अनेक प्रकारों की संश्लिष्टताओं की दुरुहता का परिहार करने में ही निहित है। कभी-कभी अन्य संस्कृतियों के प्रभाव से और अन्य जातियों के संसर्ग से भाषा में नये शब्दों का प्रवेश होता है और इन शब्दों के सही पर्यायवाची शब्द अपनी भाषा में न प्राप्त हों तो उन्हें वैसे ही अपनी भाषा में स्वीकार करने में किसी भी भाषा-भाषी को आपत्ति नहीं होनी चाहिए। यही भाषा की सजीवता होती है। भाषा की सजीवता इस नवीनता को पूर्णतः आत्मसात् करने पर ही निर्भर करती है। भाषा 'म्यूज़ियम' की वस्तु नहीं है, उसकी स्वतः सिद्ध एक सहज गति है, जो सदैव नित्य नूतनता को ग्रहण कर चलनेवाली है।

SubQuestion No : 16

Q.16 गद्यांश के लिए सर्वाधिक उपयुक्त शीर्षक हो सकता है-

- Ans A. नूतनता की आवश्यकता
 B. भाषा की परिभाषा
 C. भाषा की उपयोगिता
 D. भाषा और आधुनिकता

Question ID : 60092915091

Comprehension:

रमणीयता और नित्य नूतनता अन्योन्याश्रित हैं, रमणीयता के अभाव में कोई भी चीज़ मान्य नहीं होती। नित्यनूतनता किसी भी सर्जक की मौलिक उपलब्धि की प्रमाणिकता सूचित करती है और उसकी अनुपस्थिति में कोई भी चीज़ वस्तुतः जनता व समाज के द्वारा स्वीकार्य नहीं होती। सड़ी-गली मान्यताओं से जकड़ा हुआ समाज जैसे आगे बढ़ नहीं पाता, वैसे ही पुरानी रीतियों और शैलियों की परम्परागत लीक पर चलने वाली भाषा भी जनचेतना को गीत देने में प्रायः असमर्थ ही रह जाती है। भाषा समूची युगचेतना की अभिव्यक्ति का एक सशक्त माध्यम है और ऐसी सशक्तता तभी वह अर्जित कर सकती है, जब वह अपने युगानुकूल सही मुहावरों को ग्रहण कर सके। भाषा सामाजिक भाव-प्रकटीकरण की सुबोधता के लिए ही उद्दिष्ट है, उसके अतिरिक्त उसकी ज़रूरत ही सोची नहीं जाती। इस उपयोगिता की सार्थकता समसामयिक सामाजिक चेतना में प्राप्त अनेक प्रकारों की संश्लेषताओं की दुरुहता का परिहार करने में ही निहित है। कभी-कभी अन्य संस्कृतियों के प्रभाव से और अन्य जातियों के संसर्ग से भाषा में नये शब्दों का प्रवेश होता है और इन शब्दों के सही पर्यायवाची शब्द अपनी भाषा में न प्राप्त हों तो उन्हें वैसे ही अपनी भाषा में स्वीकार करने में किसी भी भाषा-भाषी को आपत्ति नहीं होनी चाहिए। यही भाषा की सजीवता होती है। भाषा की सजीवता इस नवीनता को पूर्णतः आत्मसात् करने पर ही निर्भर करती है। भाषा 'म्यूज़ियम' की वस्तु नहीं है, उसकी स्वतः सिद्ध एक सहज गति है, जो सदैव नित्य नूतनता को ग्रहण कर चलनेवाली है।

SubQuestion No : 17**Q.17 समाज की प्रगति में बाधक तत्त्व है-**

- Ans A. नित्य नूतनता की आवश्यकता
 B. पुरानी रीतियों और शैलियों पर चलते रहना
 C. भाषा की अशक्तता
 D. सड़ी-गली मान्यताएँ

Question ID : 60092915089

Comprehension:

रमणीयता और नित्य नूतनता अन्योन्याश्रित हैं, रमणीयता के अभाव में कोई भी चीज़ मान्य नहीं होती। नित्यनूतनता किसी भी सर्जक की मौलिक उपलब्धि की प्रमाणिकता सूचित करती है और उसकी अनुपस्थिति में कोई भी चीज़ वस्तुतः जनता व समाज के द्वारा स्वीकार्य नहीं होती। सड़ी-गली मान्यताओं से जकड़ा हुआ समाज जैसे आगे बढ़ नहीं पाता, वैसे ही पुरानी रीतियों और शैलियों की परम्परागत लीक पर चलने वाली भाषा भी जनचेतना को गीत देने में प्रायः असमर्थ ही रह जाती है। भाषा समूची युगचेतना की अभिव्यक्ति का एक सशक्त माध्यम है और ऐसी सशक्तता तभी वह अर्जित कर सकती है, जब वह अपने युगानुकूल सही मुहावरों को ग्रहण कर सके। भाषा सामाजिक भाव-प्रकटीकरण की सुबोधता के लिए ही उद्दिष्ट है, उसके अतिरिक्त उसकी ज़रूरत ही सोची नहीं जाती। इस उपयोगिता की सार्थकता समसामयिक सामाजिक चेतना में प्राप्त अनेक प्रकारों की संश्लेषताओं की दुरुहता का परिहार करने में ही निहित है। कभी-कभी अन्य संस्कृतियों के प्रभाव से और अन्य जातियों के संसर्ग से भाषा में नये शब्दों का प्रवेश होता है और इन शब्दों के सही पर्यायवाची शब्द अपनी भाषा में न प्राप्त हों तो उन्हें वैसे ही अपनी भाषा में स्वीकार करने में किसी भी भाषा-भाषी को आपत्ति नहीं होनी चाहिए। यही भाषा की सजीवता होती है। भाषा की सजीवता इस नवीनता को पूर्णतः आत्मसात् करने पर ही निर्भर करती है। भाषा 'म्यूज़ियम' की वस्तु नहीं है, उसकी स्वतः सिद्ध एक सहज गति है, जो सदैव नित्य नूतनता को ग्रहण कर चलनेवाली है।

SubQuestion No : 18**Q.18 निम्न में से 'उद्दिष्ट' का अर्थ नहीं है-**

- Ans A. समझाया हुआ
 B. छन्द में मात्रा-प्रस्तर के भेद का वर्णन
 C. लक्ष्य किया हुआ
 D. उद्देश्य रहित

Question ID : 60092915090

Comprehension:

रमणीयता और नित्य नूतनता अन्योन्याश्रित हैं, रमणीयता के अभाव में कोई भी चीज़ मान्य नहीं होती। नित्यनूतनता किसी भी सर्जक की मौलिक उपलब्धि की प्रमाणिकता सूचित करती है और उसकी अनुपस्थिति में कोई भी चीज़ वस्तुतः जनता व समाज के द्वारा स्वीकार्य नहीं होती। सड़ी-गली मान्यताओं से जकड़ा हुआ समाज जैसे आगे बढ़ नहीं पाता, वैसे ही पुरानी रीतियों और शैलियों की परम्परागत लीक पर चलने वाली भाषा भी जनचेतना को गीत देने में प्रायः असमर्थ ही रह जाती है। भाषा समूची युगचेतना की अभिव्यक्ति का एक सशक्त माध्यम है और ऐसी सशक्तता तभी वह अर्जित कर सकती है, जब वह अपने युगानुकूल सही मुहावरों को ग्रहण कर सके। भाषा सामाजिक भाव-प्रकटीकरण की सुबोधता के लिए ही उद्दिष्ट है, उसके अतिरिक्त उसकी ज़रूरत ही सोची नहीं जाती। इस उपयोगिता की सार्थकता समसामयिक सामाजिक चेतना में प्राप्त अनेक प्रकारों की संश्लेषताओं की दुरुहता का परिहार करने में ही निहित है। कभी-कभी अन्य संस्कृतियों के प्रभाव से और अन्य जातियों के संसर्ग से भाषा में नये शब्दों का प्रवेश होता है और इन शब्दों के सही पर्यायवाची शब्द अपनी भाषा में न प्राप्त हों तो उन्हें वैसे ही अपनी भाषा में स्वीकार करने में किसी भी भाषा-भाषी को आपत्ति नहीं होनी चाहिए। यही भाषा की सजीवता होती है। भाषा की सजीवता इस नवीनता को पूर्णतः आत्मसात् करने पर ही निर्भर करती है। भाषा 'म्यूज़ियम' की वस्तु नहीं है, उसकी स्वतः सिद्ध एक सहज गति है, जो सदैव नित्य नूतनता को ग्रहण कर चलनेवाली है।

SubQuestion No : 19**Q.19 भाषा की सशक्तता के लिए आवश्यक है-**

- Ans A. युगानुकूल सही मुहावरों का ग्रहण
- B. परम्परागत लीक पर स्थिर रहना
- C. विदेशी शब्दों को स्वीकार न करना
- D. जड़ प्रकृति

Question ID : 60092915092

Comprehension:

रमणीयता और नित्य नूतनता अन्योन्याश्रित हैं, रमणीयता के अभाव में कोई भी चीज़ मान्य नहीं होती। नित्यनूतनता किसी भी सर्जक की मौलिक उपलब्धि की प्रमाणिकता सूचित करती है और उसकी अनुपस्थिति में कोई भी चीज़ वस्तुतः जनता व समाज के द्वारा स्वीकार्य नहीं होती। सड़ी-गली मान्यताओं से जकड़ा हुआ समाज जैसे आगे बढ़ नहीं पाता, वैसे ही पुरानी रीतियों और शैलियों की परम्परागत लीक पर चलने वाली भाषा भी जनचेतना को गीत देने में प्रायः असमर्थ ही रह जाती है। भाषा समूची युगचेतना की अभिव्यक्ति का एक सशक्त माध्यम है और ऐसी सशक्तता तभी वह अर्जित कर सकती है, जब वह अपने युगानुकूल सही मुहावरों को ग्रहण कर सके। भाषा सामाजिक भाव-प्रकटीकरण की सुबोधता के लिए ही उद्दिष्ट है, उसके अतिरिक्त उसकी ज़रूरत ही सोची नहीं जाती। इस उपयोगिता की सार्थकता समसामयिक सामाजिक चेतना में प्राप्त अनेक प्रकारों की संश्लेषताओं की दुरुहता का परिहार करने में ही निहित है। कभी-कभी अन्य संस्कृतियों के प्रभाव से और अन्य जातियों के संसर्ग से भाषा में नये शब्दों का प्रवेश होता है और इन शब्दों के सही पर्यायवाची शब्द अपनी भाषा में न प्राप्त हों तो उन्हें वैसे ही अपनी भाषा में स्वीकार करने में किसी भी भाषा-भाषी को आपत्ति नहीं होनी चाहिए। यही भाषा की सजीवता होती है। भाषा की सजीवता इस नवीनता को पूर्णतः आत्मसात् करने पर ही निर्भर करती है। भाषा 'म्यूज़ियम' की वस्तु नहीं है, उसकी स्वतः सिद्ध एक सहज गति है, जो सदैव नित्य नूतनता को ग्रहण कर चलनेवाली है।

SubQuestion No : 20**Q.20 भाषा के संदर्भ में असत्य है-**

- Ans A. भाषा की सजीवता अपने स्वरूप को बनाये रख परिवर्तित न होने में है।
- B. भाषा स्वतः सिद्ध एक सहज गति से गतिमान रहती है।
- C. भाषा की उपयोगिता सामाजिक भाव - प्रकटीकरण की सुबोधता में है।
- D. भाषा युगचेतना की अभिव्यक्ति का माध्यम है।

Question ID : 60092915093

Q.1 A 3-phase star connected load $6+8j$ ohms is connected across a 400 V supply. The total power dissipated will be:

- Ans
- A. 22.17 kW
 - B. 7.39 kW
 - C. 4.267 kW
 - D. 12.8 kW

Question ID : 60092915106

Q.2 When a parallel beam of light is incident on a convex mirror, then:

- Ans
- A. they scattered in random directions
 - B. they remain parallel afterwards also
 - C. they converge on a point
 - D. they appear to be diverging from a point

Question ID : 60092915100

Q.3 There are some nucleic acids that behave like enzymes. These are called:

- Ans
- A. ligases
 - B. carbozymes
 - C. ribozymes
 - D. isomerases

Question ID : 60092915105

Q.4 If molar concentration of the molecules is c , path length is l and molar absorption coefficient is denoted by E , then according to Beer-Lambert's Law, Absorbance is given by:

- Ans
- A. $\frac{1}{cEl}$
 - B. $\frac{cE}{l}$
 - C. cEl
 - D. $\frac{cl}{E}$

Question ID : 60092915096

Q.5 The value of $\int_C x^2(1+2y)dx$, where C is the curve $y = x^2$, starting from $x = 0, y = 0$ and ending at $x = 1, y = 1$ is:

- Ans
- A. $\frac{11}{15}$
 - B. $\frac{3}{5}$
 - C. $\frac{6}{15}$
 - D. $\frac{2}{3}$

Question ID : 60092915097

Q.6 A single-phase transformer of 10 kVA, 2200/220V, 50 Hz gave the following test results.

Open circuit test: 220V, 2A, 110W

Short circuit test: 107V, 9A, 365W

What is the no-load power factor?

- Ans
- A. 0.38
 - B. 0.033
 - C. 0.25
 - D. 0.83

Question ID : 60092915107

Q.7 The sequence $\left\{\frac{\ln n}{n}\right\}_{n=1}^{\infty}$ converges to:

- Ans
- A. -1
 - B. 0
 - C. $\ln 2$
 - D. 1

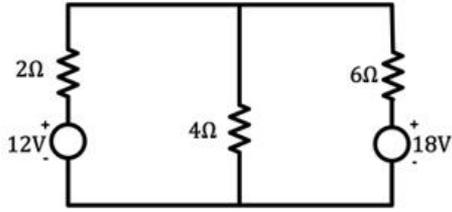
Question ID : 60092915099

Q.8 The maximum value of function $f(x) = 2x^3 + 3x^2 - 72x + 10$ in the interval $[-5, 5]$ is:

- Ans
- A. 195
 - B. 295
 - C. 25
 - D. 218

Question ID : 60092915098

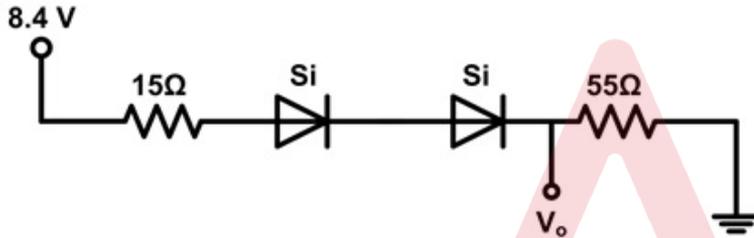
Q.9 For the circuit shown below, the value of current through 4 ohm resistor will be:



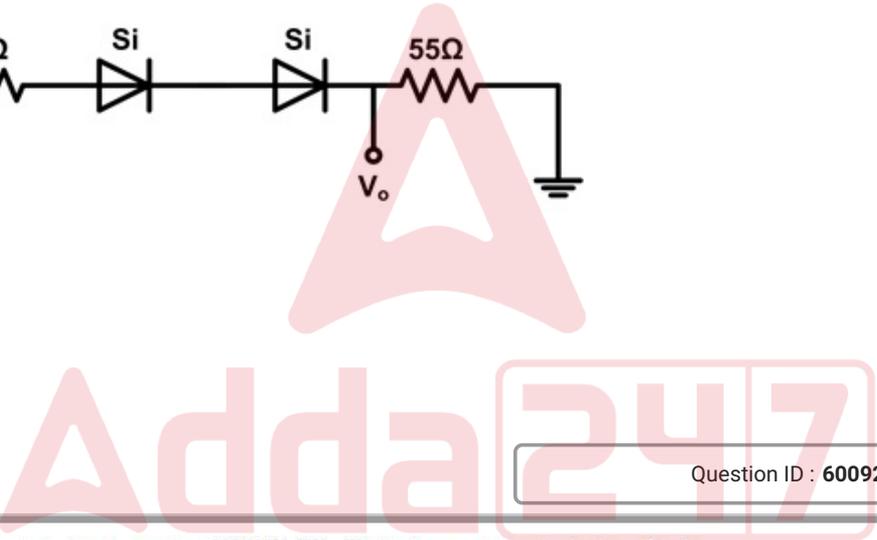
- Ans
- A. 1.63 A
 - B. 2.45 A
 - C. 2.72 A
 - D. 0.81 A

Question ID : 60092915109

Q.10 For the given figure, the value of V_o is:



- Ans
- A. 1.4 V
 - B. 6.9 V
 - C. 2.9 V
 - D. 5.5 V



Question ID : 60092915110

Q.11 A single-phase transformer is designed to operate at 220/110V, 50Hz. What is the secondary no-load voltage if the h.v. side of the transformer is connected to 110 V, 25Hz.

- Ans
- A. 220V
 - B. 110V
 - C. 440V
 - D. 55V

Question ID : 60092915113

Q.12 Amino acids contain which of the following functional groups?

- Ans
- A. Amino and Methyl
 - B. Carbonyl and Carboxyl
 - C. Amino and Carboxyl
 - D. Carbonyl and Methyl

Question ID : 60092915104

Q.13 Which of the following is NOT a biomolecule?

- Ans
- A. Protein
 - B. Carbohydrates
 - C. Lipids
 - D. Vitamin

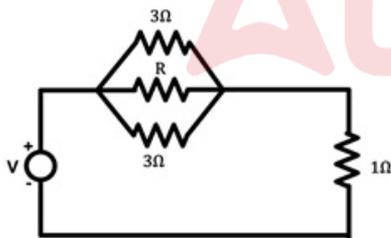
Question ID : 60092915103

Q.14 The ionisation energy of hydrogen atom is:

- Ans
- A. 3.2 eV
 - B. 13.6eV
 - C. 10.1 eV
 - D. 3.66 eV

Question ID : 60092915094

Q.15 What should be the value of R to transfer maximum power to load?



- Ans
- A. 3 ohm
 - B. Open circuit or infinite
 - C. 1 ohm
 - D. 0 ohm

Question ID : 60092915108

Q.16 Which of the following is true regarding the refraction?

- Ans
- A. The ratio of incident angle and refracted angle is always 1.
 - B. The ratio of the sine of incident angle and sine of the refracted angle is always 1.
 - C. The ratio of the sine of incident angle and sine of the refracted angle is always constant.
 - D. The ratio of incident angle and refracted angle is always constant.

Question ID : 60092915102

Q.17 Which of the following has triple bonding?

- Ans
- A. Carbon dioxide
 - B. Nitrogen
 - C. Oxygen
 - D. C_2H_4

Question ID : 60092915095

Q.18 Calculate the magnetomotive force required to produce a flux of 0.02 Wb across an air-gap of 2 mm, having an effective area of 0.03 m^2 .

- Ans
- A. 566 A
 - B. 1061 A
 - C. 2565 A
 - D. 1493 A

Question ID : 60092915112

Q.19 For N-channel enhancement type MOSFET, which of the following switching characteristics is true?

- Ans
- A. It is always OFF.
 - B. It is OFF when $V_{GS} \gg 0$.
 - C. It is ON when $V_{GS} \ll 0$.
 - D. It is OFF when $V_{GS} = 0$.

Question ID : 60092915111

Q.20 An object is placed at 8 cm in front of a concave mirror having a radius of curvature of 20 cm. The position of the image is formed:

- Ans**
- A. 40 cm behind the mirror
 - B. 40 cm on the same side of mirror
 - C. 13.33 cm behind the mirror
 - D. 13.33 cm on the same side of the mirror

Question ID : 60092915101

Section : Discipline2

Q.1 A fluid coupling device that is used to transmit motion from the engine to the transmission input shaft is called _____.

- Ans**
- A. drive cycle
 - B. torque converter
 - C. gear box
 - D. power steering

Question ID : 60092915125

Q.2 The shunt motors with constant field current have which of the following characteristics?

- Ans**
- A. Torque proportional to armature current and speed product
 - B. Constant torque
 - C. Constant back EMF
 - D. Torque proportional to armature current

Question ID : 60092915122

Q.3 The function in SOP given by $f(A, B, C, D) = \sum(2, 4, 5, 6, 12, 13, 14)$, will get minimised to:

- Ans**
- A. $B\bar{C} + B\bar{D} + AC\bar{D}$
 - B. $B\bar{C} + B\bar{D} + A\bar{C}\bar{D}$
 - C. $(\bar{B} + A\bar{C})\bar{D} + B\bar{C}$
 - D. $(B + \bar{A}C)\bar{D} + B\bar{C}$

Question ID : 60092915114

Q.4 If m is annual cost per kVA of the maximum demand and n is annual cost per kVA of power factor correction equipment, then the most economical power factor, when kW demand is constant, is given by:

Ans

A. $\sqrt{1 - \left(\frac{n}{m}\right)^2}$

B. $\sqrt{1 - \left(\frac{m}{n}\right)^2}$

C. $\sqrt{m^2 + n^2}$

D. $\sqrt{m^2 - n^2}$

Question ID : 60092915131

Q.5 A setting of 15% on 200/4 A CT means the relay operates for primary earth fault current of:

Ans

A. 7.5 A

B. 30 A

C. 0.3 A

D. 0.6 A

Question ID : 60092915129

Q.6 Three stator phases of an induction motor are connected in series across DC or AC supply, in which of the following braking methods?

Ans

A. Self-excited braking

B. Zero sequence braking

C. DC dynamic braking

D. AC dynamic braking

Question ID : 60092915124

Q.7 If the flag register has a stored hex-value of C5, then:

Ans

A. an accumulator has odd parity

B. an arithmetic operation has resulted in a non-zero value

C. a positive number is generated

D. a carry is generated

Question ID : 60092915120

Q.8 In a four-quadrant operation of electric drives, the third quadrant is associated with _____.

- Ans
- A. reverse motoring
 - B. forward motoring
 - C. forward braking
 - D. reverse braking

Question ID : 60092915123

Q.9 SSSC is one of the most important FACTS controller, it is an abbreviated version of:

- Ans
- A. Static Series Shunt Compensator
 - B. Static Synchronous Series Compensator
 - C. Static Synchronous Shunt Compensator
 - D. Static Series Series Compensator

Question ID : 60092915132

Q.10 Upon executing the following set of instructions, what will be the store value in register H?

```
LXI H, 2112H
MOV B,H
MOV A,B
ORI 22H
MOV H,A
```

- Ans
- A. 12H
 - B. 21H
 - C. 22H
 - D. 23H

Question ID : 60092915121

Q.11 One of the logic families, DCTL is an abbreviated form of:

- Ans
- A. Direct Coupled Transistor Logic
 - B. Direct Circuit Transistor Logic
 - C. Dynamic Circuit Transistor Logic
 - D. Dynamic Coupled Transistor Logic

Question ID : 60092915115

Q.12 Consider real valued signals $a(t)$ and $b(t)$ which are bandlimited to -200Hz to 200 Hz and -400 Hz to 400 Hz , respectively. The Nyquist sampling frequency in kHz for a signal $c(t)=a(t)b(t)$ is:

- Ans
- A. 0.4
 - B. 0.6
 - C. 0.8
 - D. 1.2

Question ID : 60092915117

Q.13 If A, B, C, D are the transmission line parameters, then for compensating the Ferranti effect, the shunt reactor required is of rating:

- Ans
- A. $\frac{D}{C}$
 - B. $\frac{B}{A}$
 - C. $\frac{B}{1-A}$
 - D. $\frac{D}{1-C}$

Question ID : 60092915130

Q.14 Which of the following is NOT a source of fault power?

- Ans
- A. Transformers
 - B. Induction motors
 - C. Generators
 - D. Synchronous motors

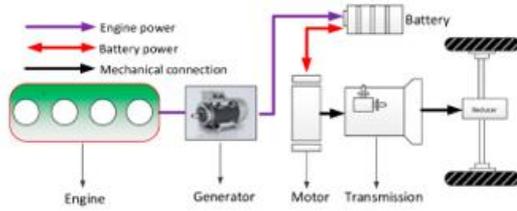
Question ID : 60092915127

Q.15 If signal M has a total energy of 65 units and zero average power whereas Signal N has an average power of 200 units and infinite total energy, then:

- Ans
- A. both are power signals
 - B. both are energy signals
 - C. N is a power signal and M is an energy signal
 - D. M is a power signal and N is an energy signal

Question ID : 60092915116

Q.16 Figure shown is which type of power train topology for an electric vehicle?



- Ans
- A. Series Hybrid EV
 - B. Parallel Hybrid EV
 - C. Series-parallel Hybrid EV
 - D. Power-split Hybrid EV

Question ID : 60092915126

Q.17 The digital transformation of manufacturing and related industries and value creation processes is termed as:

- Ans
- A. Industry 1.0
 - B. Industry 3.0
 - C. Industry 2.0
 - D. Industry 4.0

Question ID : 60092915133

Q.18 An angle impedance relay is another name of:

- Ans
- A. inductance relay
 - B. resistance relay
 - C. Mho relay
 - D. reactance relay

Question ID : 60092915128

Q.19 For a second order system, if the product of natural frequency and damping is 1.5, then its settling time for 5% tolerance band is:

- Ans
- A. 0.375 sec
 - B. 2.67 sec
 - C. 0.5 sec
 - D. 2 sec

Question ID : 60092915118

Q.20 Which of the following is INCORRECT in relation to phase lag or lead compensator?

Ans A.

The phase lead compensation shifts the gain crossover frequency to lower values.

B.

The phase lag compensation shifts the gain crossover frequency to lower values.

C.

The maximum phase lag occurs at geometric mean of the two corner frequencies.

D.

The maximum phase lead occurs at geometric mean of the two corner frequencies.

Question ID : 60092915119

Section : Discipline3

Q.1 Which of the following is NOT a type of DMA (Direct Memory Access) transfer using DMA controller?

Ans A. Clocking mode

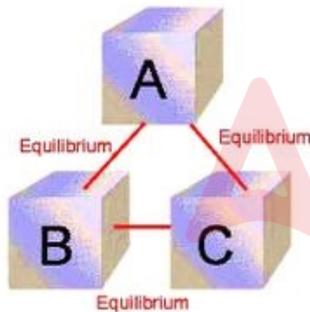
B. Transparent mode

C. Burst transfer mode

D. Cyclic stealing mode

Question ID : 60092915143

Q.2 Which law of thermodynamics is expressed by the following figure?



Ans A. First Law of Thermodynamics

B. Second Law of Thermodynamics

C. Third Law of Thermodynamics

D. Zeroth Law of Thermodynamics

Question ID : 60092915145

Q.3 A signal is sampled at f_s and the signal waveform has a maximum frequency component of 20kHz. The waveform can be easily reconstructed from the samples without any distortion for which of the following pairs of f_s ?

- Ans**
- A. 15 kHz and 30 kHz
 - B. 35kHz and 70 kHz
 - C. 45kHz and 90kHz
 - D. 20 kHz and 40 kHz

Question ID : 60092915139

Q.4 The _____ Law of Thermodynamics is a general principle which places constraints upon the direction of heat transfer and attainable efficiencies of heat engines.

- Ans**
- A. Third
 - B. Zeroth
 - C. Second
 - D. First

Question ID : 60092915146

Q.5 The transmission and distribution losses in power before reaching an industry is 20%. A distribution transformer has a 95% efficiency at the industry level. The power goes to motor there losses 10% and an additional 30% in the mechanical drive train. The overall energy efficiency is:

- Ans**
- A. 21%
 - B. 48%
 - C. 57%
 - D. 69%

Question ID : 60092915134

Q.6 At the same pressure and temperature, the expression $V \propto n$ indicates _____, where V is the volume of the gas, and n denotes the amount of gaseous substance.

- Ans**
- A. law of gases
 - B. law of volumes
 - C. Marie Curie hypothesis
 - D. Avogadro's law

Question ID : 60092915149

Q.7 For a system frequency of 50 Hz and inertia constant(H) of 5.5 MJ/MVA calculate the critical clearing time if initial and critical power angles are 0.5 and 1.5 radian, respectively. Consider the initial power to be 0.7 per unit.

- Ans**
- A. 0.267 sec
 - B. 0.225 sec
 - C. 0.316 sec
 - D. 0.1 sec

Question ID : 60092915137

Q.8 A 50 Hz, 4-pole turbogenerator has an inertia constant (H) of 6 MJ/MVA. Assume that the generator is synchronised with a large power system and has a zero accelerating power while delivering a power of 300 MW. Suddenly its input power is changed to 330 MW. The value of $\frac{d^2\delta}{dt^2}$ is:

- Ans
- A. 45000 electrical rad/s²
 - B. 2467.4 electrical rad/s²
 - C. 785.4 electrical rad/s²
 - D. 13.7 electrical rad/s²

Question ID : 60092915136

Q.9 In a Carnot engine, the efficiency _____ on increase in temperature of the source.

- Ans
- A. becomes 100 %
 - B. decreases
 - C. becomes zero
 - D. increases

Question ID : 60092915147

Q.10 What is the second element i.e. $X(1)$ of the DFT of the following sequence $x(n) = [1, 0, -1, 0]$?

- Ans
- A. 2
 - B. 0
 - C. -1
 - D. 1

Question ID : 60092915138

Q.11 When the metal changes its crystal structure with respect to the temperature, it is known as _____.

- Ans
- A. changeability
 - B. crystalline shift
 - C. homogeneity
 - D. allotropy

Question ID : 60092915151

Q.12 Which of the following is FALSE with respect to multi-cycle data path?

- Ans
- A. It is more complex than the single-cycle data path.
 - B. The clock period is shortened.
 - C. No extra registers are required.
 - D. Instruction is broken into multiple steps.

Question ID : 60092915142

Q.13 $C_p / C_v = n$ is also known as _____.

- Ans
- A. Adiabatic Index
 - B. Replicability Factor
 - C. Entropical Index
 - D. Compressibility Index

Question ID : 60092915148

Q.14 In a single machine infinite bus system, the magnitudes of sending and receiving end voltages are 1.1 p.u. and 1 p.u., respectively. The line has a reactance of 0.2 p.u. What is the possible value of power angle for a power of 2 p.u.?

- Ans
- A. 21.32 degrees
 - B. 48.67 degrees
 - C. 36.87 degrees
 - D. 152.55 degrees

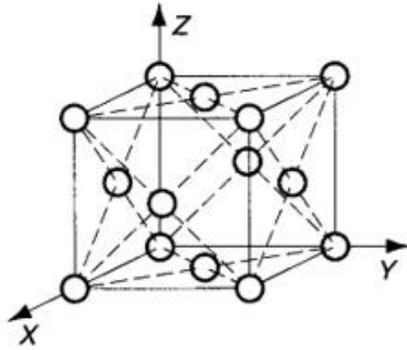
Question ID : 60092915135

Q.15 The Z-transform of $x(n) = 0.3^{(n-2)} u(n-2)$ if $u(n-2)$ is 1 for $n \geq 2$ else it is 0.

- Ans
- A. $\frac{z^2}{z - 0.3}$
 - B. $\frac{z}{z - 0.3}$
 - C. $\frac{z^{-1}}{z - 0.3}$
 - D. $\frac{z^{-2}}{z - 0.3}$

Question ID : 60092915140

Q.16 Identify the crystal structure given in the following figure.



- Ans
- A. Body centred cubic
 - B. Hexagonal closed pack
 - C. Open system
 - D. Face centred cubic

Question ID : 60092915150

Q.17 Which of the following is NOT a component of the data path in computer organisation?

- Ans
- A. Registers
 - B. Interconnecting buses
 - C. ALU
 - D. Control Unit

Question ID : 60092915141

Q.18 The load in tensile testing _____ after the necking phenomenon.

- Ans
- A. becomes zero
 - B. increases
 - C. decreases
 - D. becomes maximum

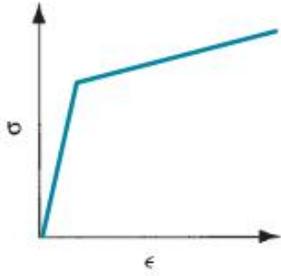
Question ID : 60092915152

Q.19 In the equation of Enthalpy, $h = u + pv$, u stands for _____.

- Ans
- A. Enthalpy
 - B. External Energy
 - C. Entropy
 - D. Internal Energy

Question ID : 60092915144

Q.20 Identify the category of the given stress-strain relationship.



- Ans
- A. Perfectly elastic
 - B. Elastic and perfectly plastic
 - C. Elastic-plastic and strain hardening
 - D. Perfectly plastic

Question ID : 60092915153

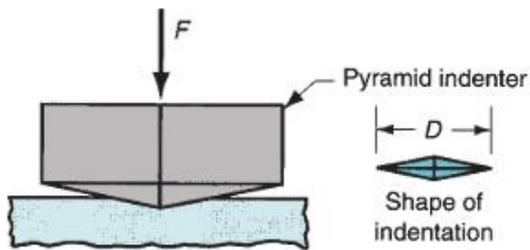
Section : Discipline4

Q.1 _____ cam follower has the highest wear rate.

- Ans
- A. Cylindrical
 - B. Sliding
 - C. Knife edge
 - D. Flat faced

Question ID : 60092915163

Q.2 Identify the hardness testing shown in the following figure.



- Ans
- A. Rockwell hardness testing
 - B. Vickers hardness testing
 - C. Knoop hardness testing
 - D. Brinell's hardness testing

Question ID : 60092915154

Q.3 _____ process is NOT associated with diesel cycle.

- Ans A. Isothermal
 B. Constant pressure
 C. Constant volume
 D. Adiabatic

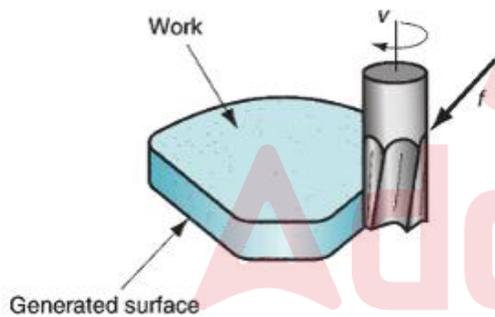
Question ID : 60092915172

Q.4 The solid-liquid interface formed during cooling of metal in casting is known as the _____.

- Ans A. firefly zone
 B. meeting zone
 C. mushy zone
 D. peritectic zone

Question ID : 60092915156

Q.5 Identify the process happening in the following figure.



- Ans A. Taper turning
 B. Taper milling
 C. Profile turning
 D. Profile milling

Question ID : 60092915157

Q.6 Ball and socket joint is a _____.

- Ans
- A. screw pair
 - B. spherical pair
 - C. turning pair
 - D. rolling pair

Question ID : 60092915162

Q.7 Heat conduction occurs in gases due to _____.

- Ans
- A. motion of electrons
 - B. mixing motion of different layers
 - C. elastic impact of molecules
 - D. electromagnetic waves

Question ID : 60092915165

Q.8 Scavenging in combusting is a process wherein:

- Ans
- A. air is used for forcing the burnt gases out
 - B. air is forced for cooling
 - C. air is sucked in
 - D. air enters compression

Question ID : 60092915171

Q.9 _____ is an anisotropic material.

- Ans
- A. Glass wool
 - B. Wood
 - C. Concrete
 - D. Masonry brick

Question ID : 60092915166

Q.10 Which of the following conditions is correct as per Grashof's law?

(Where S – length of the shortest link; L – length of the longest link; P – length of remaining link and Q – length of other remaining link of four bar linkage)

- Ans
- A. $S + L > P + Q$
 - B. $S + L \leq P + Q$
 - C. $S + Q \leq P + L$
 - D. $P + L > S + Q$

Question ID : 60092915164

Q.11 _____ is defined as the instantaneous value of stress required to continue deforming the material.

- Ans
- A. Flow stress
 - B. Friction stress
 - C. Guy's stress
 - D. Tresca stress

Question ID : 60092915158

Q.12 Chills used in casting process promote _____.

- Ans
- A. better joining
 - B. directional solidification
 - C. better formability
 - D. better mixing

Question ID : 60092915155

Q.13 Which of following is NOT a type of convection heat transfer?

- Ans
- A. Forced
 - B. Mixed
 - C. Natural
 - D. Parallel

Question ID : 60092915167

Q.14 Which process uses abrasives contained in a slurry driven at high velocity against the work piece to remove material?

- Ans
- A. Spark erosion machine
 - B. Ultraviolet machining.
 - C. Ultrasonic machining
 - D. Electrical discharge machining

Question ID : 60092915159

Q.15 Crankshaft rotating in the journal bearing of an engine forms _____.

- Ans
- A. rolling pair
 - B. screw pair
 - C. turning pair
 - D. spherical pair

Question ID : 60092915161

Q.16 In the _____ type of heat exchangers, the space occupied by the hot and cold fluids are the same.

- Ans
- A. religator
 - B. regenerator
 - C. remilator
 - D. recuperator

Question ID : 60092915169

Q.17 _____ is the main shaft of an engine that controls the movement of the piston.

- Ans
- A. Axle
 - B. camshaft
 - C. Crankshaft
 - D. Drive shaft

Question ID : 60092915170

Q.18 In the case of a heat exchanger, if the inlet and exit temperatures of two fluids are the same, then the LMTD of the parallel flow is always _____.

- Ans
- A. unpredicted
 - B. smaller than the counter flow
 - C. greater than the counter flow
 - D. equal to the counter flow

Question ID : 60092915168

Q.19 _____ is the separation distance between the nozzle opening and the work surface in the water jet cutting process.

- Ans
- A. Standoff distance
 - B. Nozzle angle
 - C. Torch distance
 - D. Tip distance

Question ID : 60092915160

Q.20 For similar values of compression ratio and heat input, the efficiency of the following cycles in decreasing order is:

- Ans
- A. Otto - Dual - Diesel
 - B. Diesel - Otto - Dual
 - C. Otto - Diesel - Dual
 - D. Dual - Diesel - Otto

Question ID : 60092915173

Section : Discipline5

Q.1 The compressors used for gas turbines are _____.

- Ans
- A. Lysholm flow compressors
 - B. reciprocating piston compressors
 - C. axial flow compressors
 - D. Radial flow centrifugal compressors

Question ID : 60092915186

Q.2 A servo motor is a _____ system.

- Ans
- A. opto-electrical
 - B. mechatronic
 - C. vision based
 - D. friction based

Question ID : 60092915174

Q.3 Which of the following propulsion units has reduction gearing as one of its essential components?

- Ans
- A. Pulse jet
 - B. Athodyd
 - C. Turbo jet
 - D. Turbo prop

Question ID : 60092915189

Q.4 Which of following is NOT a ceramic?

- Ans
- A. Kevlar
 - B. S-glass
 - C. SiC
 - D. E-Glass

Question ID : 60092915181

Q.5 In a regenerative cycle, heating of the feed water is done by _____.

- Ans
- A. exhaust gases
 - B. steam drained from the turbine
 - C. burners
 - D. heaters

Question ID : 60092915185

Q.6 Asphalt is a _____.

- Ans
- A. ceramic matrix composite
 - B. metal matrix composite
 - C. polymer matrix composite
 - D. plastic metal composite

Question ID : 60092915179

Q.7 In the manufacturing field, CAM stands for _____.

- Ans
- A. Computer Actioned Manufacturing
 - B. Computer Alias Manufacturing
 - C. Computer Allied Manufacturing
 - D. Computer Aided Manufacturing

Question ID : 60092915176

Q.8 The surrounding air is NOT used as an oxidiser in _____.

- Ans
- A. turbo prop
 - B. rocket propulsion
 - C. athodyd
 - D. flying bomb

Question ID : 60092915188

Q.9 _____ has an octane rating of 100.

- Ans
- A. Ethyl fluid
 - B. Methyl alcohol
 - C. Iso-octane
 - D. Normal heptane

Question ID : 60092915192

Q.10 A higher octane rating of an SI fuel denotes that _____.

- Ans
- A. the fuel has a higher heating value
 - B. the fuel has a higher flash point
 - C. the fuel has a longer ignition delay
 - D. the fuel has lower volatility

Question ID : 60092915193

Q.11 The _____ specifies the capacity of a data acquisition system.

- Ans
- A. number of control elements
 - B. number of interfaces
 - C. number of functions
 - D. number of channels

Question ID : 60092915175

Q.12 The compressor always possesses a compression ratio of _____.

- Ans
- A. < 1
 - B. $= 1$
 - C. $= 0$
 - D. > 1

Question ID : 60092915187

Q.13 The function of a _____ is to maintain directional control during braking.

- Ans
- A. anti-lock braking system
 - B. directional braking system
 - C. controlled braking system
 - D. stable braking system

Question ID : 60092915191

Q.14 Which of the following holds true for the Rankine efficiency of a steam power plant.

- Ans
- A. It is not affected by climatic conditions
 - B. It is zero in winter
 - C. It improves in summer as compared to winter
 - D. It improves in winter as compared to summer

Question ID : 60092915184

Q.15 In the context of mechatronics systems, PLC stands for _____.

- Ans
- A. Programmable Logic Controller
 - B. Profitable Logistic Carrier
 - C. Progressing Logical Computer
 - D. Probable Locked Controller

Question ID : 60092915177

Q.16 In a composite, the secondary phase is embedded in the primary phase. The secondary phase is also referred to as the _____.

- Ans
- A. reinforcing agent
 - B. matrix agent
 - C. light agent
 - D. mixed phase

Question ID : 60092915178

Q.17 In a boiler furnace, some coals become plastic and form lumps or masses of coal. This is known as _____.

- Ans
- A. caking
 - B. loaming
 - C. loafing
 - D. curing

Question ID : 60092915182

Q.18 In a power plant, maximum energy is lost in the _____.

- Ans
- A. pump
 - B. condenser
 - C. boiler
 - D. environment

Question ID : 60092915183

Q.19 Whiskers is a type of _____.

- Ans
- A. plastic
 - B. steel
 - C. metal
 - D. fibre

Question ID : 60092915180

Q.20 The ignition quality of fuel is expressed as _____.

- Ans
- A. SAE rating
 - B. octane number
 - C. API number
 - D. cetane index

Question ID : 60092915190