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**Previous Year Paper
(Civil)**

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Participant ID	
Participant Name	
Test Center Name	
Test Date	22/03/2025
Test Time	9:00 AM - 11:00 AM
Subject	Junior Engineer or Assistant Manager Civil Trainee

Section : World History and Geography and Indian History and Geography and Historical events up to 10th level

Q.1 Which of the following is NOT a major benefit of a strong tertiary sector in an economy?

- Ans** ☒ 1. Increase in agricultural productivity
☒ 2. Higher contribution to GDP
☒ 3. Support for industrial and technological growth
☒ 4. Creation of employment opportunities

Question Type : **MCQ**

Question ID : **6306801387276**

Status : **Answered**

Chosen Option : **3**

Marks : **0**

Q.2 Which event officially ended World War II?

- Ans** ☒ 1. Japan's surrender after atomic bombings
☒ 2. The fall of Berlin
☒ 3. The Treaty of Versailles
☒ 4. The D-Day invasion

Question Type : **MCQ**

Question ID : **6306801387232**

Status : **Answered**

Chosen Option : **3**

Marks : **0**

Q.3 Which of the following factors is primarily responsible for climate change?

- Ans ☒ 1. Ocean currents
- ☒ 2. Industrialisation and fossil fuel combustion
- ☒ 3. Solar flares
- ☒ 4. Natural tectonic shifts

Question Type : MCQ

Question ID : 6306801387248

Status : Answered

Chosen Option : 2

Marks : 1

Q.4 In India, which of the following forests has the tallest tree?

- Ans ☒ 1. Tropical evergreen forest
- ☒ 2. Tropical deciduous forest
- ☒ 3. Littoral and swamp forest
- ☒ 4. Tropical thorn forest

Question Type : MCQ

Question ID : 6306801251873

Status : Answered

Chosen Option : 2

Marks : 0

Q.5 Which one of the following is the largest tributary of River Ganga?

- Ans ☒ 1. Yamuna
- ☒ 2. Ghagra
- ☒ 3. Gandak
- ☒ 4. Kosi

Question Type : MCQ

Question ID : 6306801250703

Status : Answered

Chosen Option : 1

Marks : 1

Q.6 Which river is called 'Sorrow of Bengal'?

- Ans ☒ 1. Damodar
- ☒ 2. Son
- ☒ 3. Mahananda
- ☒ 4. Mahanadi

Question Type : MCQ

Question ID : 6306801250689

Status : Answered

Chosen Option : 4

Marks : 0

Q.7 According to Megasthenes, how many committees managed the administration of Pataliputra?

Ans ☒ 1. Six

☐ 2. Seven

☐ 3. Five

☐ 4. Four

Question Type : MCQ

Question ID : 6306801387131

Status : Answered

Chosen Option : 1

Marks : 1

Q.8 What was the Manhattan Project during World War II?

Ans ☐ 1. A peace treaty between the Allies and Axis

☒ 2. The American project to develop nuclear weapons

☐ 3. A secret German invasion plan

☐ 4. A military alliance between Britain and France

Question Type : MCQ

Question ID : 6306801387224

Status : Answered

Chosen Option : 2

Marks : 1

Q.9 What significant change in British policy occurred as a direct result of the 1857 Revolt?

Ans ☐ 1. Introduction of the Permanent Settlement

☒ 2. Abolition of the East India Company and direct governance by the British Crown

☐ 3. Establishment of the Indian National Congress

☐ 4. Implementation of the Subsidiary Alliance

Question Type : MCQ

Question ID : 6306801387182

Status : Answered

Chosen Option : 4

Marks : 0

Q.1 What was the British policy of 'divide and rule' after the Revolt of 1857 primarily aimed at?

Ans ✓ 1. Preventing future rebellions by dividing Indians along caste, community and regional lines

✗ 2. Strengthening the Indian economy

✗ 3. Promoting unity among Hindus and Muslims

✗ 4. Encouraging Indian participation in the British administration

Question Type : **MCQ**

Question ID : **6306801391427**

Status : **Answered**

Chosen Option : **1**

Marks : **1**

Section : **Constitution and Civic Rules and Information technology and Environment up to 10th level**

Q.1 Under which circumstances can the Governor exercise discretionary powers in appointing the Chief Minister?

Ans ✗ 1. When a single party gains a clear majority in the Legislative Assembly

✓ 2. When no party has a clear majority, leading to a hung assembly

✗ 3. When the outgoing Chief Minister recommends a successor

✗ 4. The Governor has no discretionary powers in appointing the Chief Minister

Question Type : **MCQ**

Question ID : **6306801387484**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.2 What is the function of the keyboard shortcut 'Alt + Tab'?

Ans ✗ 1. Deletes the selected file or folder

✗ 2. Saves the current document or file

✓ 3. Switches between open windows or applications

✗ 4. Cuts the selected text or image

Question Type : **MCQ**

Question ID : **6306801391283**

Status : **Answered**

Chosen Option : **3**

Marks : **1**

Q.3 Which of the following is a disadvantage of wind energy?

- Ans**
- ☐ 1. High pollution
 - ☐ 2. High cost of fuel
 - ☐ 3. Requirement of large amounts of water
 - ☒ 4. Intermittent availability

Question Type : **MCQ**

Question ID : **6306801387366**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.4 In India, the State Council of Ministers is collectively responsible to which house of the State Legislature?

- Ans**
- ☐ 1. Rajya Sabha
 - ☐ 2. Lok Sabha
 - ☒ 3. State Legislative Assembly
 - ☐ 4. State Legislative Council

Question Type : **MCQ**

Question ID : **6306801387510**

Status : **Answered**

Chosen Option : **3**

Marks : **1**

Q.5 What is an example of a Community Reserve in India?

- Ans**
- ☒ 1. Kadalundi-Vallikkunnu in Kerala
 - ☐ 2. Sundarbans Tiger Reserve
 - ☐ 3. Gir Forest National Park
 - ☐ 4. Kaziranga National Park

Question Type : **MCQ**

Question ID : **6306801387314**

Status : **Answered**

Chosen Option : **1**

Marks : **1**

Q.6 Under which Article can the Supreme Court review laws passed by the Parliament?

- Ans**
- ☐ 1. Article 327
 - ☒ 2. Article 137
 - ☐ 3. Article 217
 - ☐ 4. Article 226

Question Type : **MCQ**

Question ID : **6306801387439**

Status : **Answered**

Chosen Option : **3**

Marks : **0**

Q.7 What is the 'Gram Vikas' approach to disaster mitigation?

- Ans
- ☐ 1. Replacing local governance with international agencies
 - ☐ 2. Encouraging migration from disaster-prone areas
 - ☐ 3. Providing only financial aid to disaster victims
 - ☒ 4. Focussing on long-term community preparedness and resilience

Question Type : MCQ

Question ID : 6306801387347

Status : Answered

Chosen Option : 4

Marks : 1

Q.8 In MS Excel 2019, what is the default file extension for saving workbooks?

- Ans
- ☒ 1. .xlsx
 - ☐ 2. .xls
 - ☐ 3. .csv
 - ☐ 4. .txt

Question Type : MCQ

Question ID : 6306801391244

Status : Answered

Chosen Option : 2

Marks : 0

Q.9 What happens when the Chief Minister resigns?

- Ans
- ☒ 1. The entire Council of Ministers dissolves
 - ☐ 2. The Cabinet continues to function
 - ☐ 3. The President appoints a new Chief Minister
 - ☐ 4. The Governor will ask the Finance Minister to takeover

Question Type : MCQ

Question ID : 6306801387490

Status : Answered

Chosen Option : 2

Marks : 0

Q.1 Which type of computer memory is used to store data temporarily and is erased when the computer is powered off?

- Ans
- ☐ 1. HDD
 - ☒ 2. RAM
 - ☐ 3. SSD
 - ☐ 4. ROM

Question Type : MCQ

Question ID : 6306801391191

Status : Answered

Chosen Option : 2

Marks : 1

Section : Current affairs and Madhya Pradesh General Knowledge up to 10th level

Q.1 The Madhya Pradesh Employment Guarantee Act, passed in 2024, aims to provide job security to rural youth. What is the key feature of this Act?

- Ans**
- ☒ 1. Mandatory internship programs for youth
 - ☒ 2. Providing subsidies for self-employment
 - ☒ 3. Mandating rural employment for 100 days
 - ☒ 4. Creation of urban employment zones

Question Type :	MCQ
Question ID :	6306801389283
Status :	Answered
Chosen Option :	3
Marks :	1

Q.2 Which tribal leader from Madhya Pradesh is often called the 'Robin Hood of Madhya Pradesh' for his resistance against the British rule?

- Ans**
- ☒ 1. Tantya Bhil
 - ☒ 2. Birsa Munda
 - ☒ 3. Raghunath Shah
 - ☒ 4. Shankar Shah

Question Type :	MCQ
Question ID :	6306801387545
Status :	Answered
Chosen Option :	1
Marks :	1

Q.3 Who is the author of the book 'The Many Lives of Syeda X', published in October 2024?

- Ans**
- ☒ 1. Rachna Bisht Rawat
 - ☒ 2. Shashi Tharoor
 - ☒ 3. Neha Dixit
 - ☒ 4. Arundhati Roy

Question Type :	MCQ
Question ID :	6306801390651
Status :	Answered
Chosen Option :	3
Marks :	1

Q.4 Which prominent actor received the 'Best Actor' award at the 2024 International Film Festival of India (IFFI)?

- Ans ☒ 1. Ranbir Kapoor
- ☒ 2. Clément Favreau
- ☒ 3. Shah Rukh Khan
- ☒ 4. Amitabh Bachchan

Question Type : MCQ

Question ID : 6306801388692

Status : Answered

Chosen Option : 2

Marks : 1

Q.5 Which of the following sectors is NOT a key focus of the Madhya Pradesh GCC Policy, 2025?

- Ans ☒ 1. Information Technology (IT)
- ☒ 2. Artificial Intelligence and Cybersecurity
- ☒ 3. Textile and Handicrafts
- ☒ 4. Finance and Banking

Question Type : MCQ

Question ID : 6306801389191

Status : Answered

Chosen Option : 2

Marks : 0

Q.6 When was the 2024 UN Climate Change Conference (COP28) held, and what was the key agenda?

- Ans ☒ 1. November 2024, Strengthening the Paris Agreement Implementation
- ☒ 2. February 2024, Climate Adaptation Financing
- ☒ 3. December 2024, Technology for Carbon Neutrality
- ☒ 4. July 2024, Forest Protection Initiatives

Question Type : MCQ

Question ID : 6306801388570

Status : Answered

Chosen Option : 3

Marks : 0

Q.7 What is the primary objective of the 'Mukhya Mantri Madad Yojana' launched by the Madhya Pradesh government?

- Ans ☒ 1. To promote entrepreneurship among women
- ☒ 2. To offer free medical treatment to children
- ☒ 3. To provide financial assistance to farmers
- ☒ 4. To support tribal families in distress

Question Type : MCQ

Question ID : 6306801387642

Status : Answered

Chosen Option : 3

Marks : 0

Q.8 Which of the following is a characteristic of the winter season ('Siyala') in Madhya Pradesh?

- Ans ☒ 1. Frequent thunderstorms
- ☒ 2. Clear skies and low humidity
- ☒ 3. Heavy rainfall
- ☒ 4. High humidity

Question Type : MCQ

Question ID : 6306801387621

Status : Answered

Chosen Option : 2

Marks : 1

Q.9 Who among the following led the guerrilla warfare against the British in Madhya Pradesh after 1857?

- Ans ☒ 1. Dwarika Prasad Mishra
- ☒ 2. Tantia Tope
- ☒ 3. Seth Govind Das
- ☒ 4. Rani Lakshmibai

Question Type : MCQ

Question ID : 6306801387538

Status : Answered

Chosen Option : 2

Marks : 1

Q.1 Which plateau region in Madhya Pradesh is bounded by the Narmada-Son valley to the south, the Kaimur range to the east and the Aravalli range to the west?

Ans ☒ 1. Malwa Plateau

☒ 2. Central Highlands

☒ 3. Bundelkhand Plateau

☒ 4. Rewa-Panna Plateau

Question Type : MCQ

Question ID : 6306801387593

Status : Answered

Chosen Option : 1

Marks : 0

Section : Logical Reasoning and Mathematics up to 10th level

Q.1 Latika and Himani together invested ₹45700 in a business. At the end of the year, out of a total profit of ₹5000, Latika's share was ₹1900. What was the investment of Himani?

Ans ☒ 1. ₹29545

☒ 2. ₹27435

☒ 3. ₹28334

☒ 4. ₹27760

Question Type : MCQ

Question ID : 6306801076066

Status : Answered

Chosen Option : 3

Marks : 1

Q.2 Refer to the following letter and symbol series and answer the question that follows. Counting to be done from left to right only.

(Left) H * @ \$ M * £ € T V G # W B @ \$ * @ © & & D (Right)

How many such symbols are there that are immediately preceded by a letter and also immediately followed by a symbol?

Ans ☒ 1. 5

☒ 2. 2

☒ 3. 3

☒ 4. 4

Question Type : MCQ

Question ID : 6306801073959

Status : Answered

Chosen Option : 3

Marks : 1

Q.3 The smallest 1-digit number to be added to the 6-digit number 822997 so that it is completely divisible by 11 is:

Ans ☒ 1. 2

☒ 2. 1

☒ 3. 3

☒ 4. 4

Question Type : **MCQ**

Question ID : **630680950559**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.4 Based on the English alphabetical order, three of the following four letter-cluster pairs are alike in a certain way and thus form a group. Which pair DOES NOT belong to that group?
(Note: The odd one out is not based on the number of consonants/vowels or their position in the letter-cluster pair.)

Ans ☒ 1. YB-CF

☒ 2. AD-EH

☒ 3. JL-MP

☒ 4. RU-VY

Question Type : **MCQ**

Question ID : **630680730307**

Status : **Answered**

Chosen Option : **3**

Marks : **1**

Q.5 Seven people, A, B, C, D, E, F and G are sitting in a row, facing the north. No one sits to the right of G. Only three people sit between G and D. Only two people sit between D and C. E sits third to the left of F. B sits to the immediate right of F. How many people sit between C and D?

Ans ☒ 1. 4

☒ 2. 3

☒ 3. 1

☒ 4. 2

Question Type : **MCQ**

Question ID : **630680627757**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.6 Mansi and Neha together invested ₹24100 in a business. At the end of the year, out of a total profit of ₹7500, Mansi's share was ₹1200. What was the investment of Neha?

Ans ☒ 1. ₹20244

☐ 2. ₹18865

☐ 3. ₹19545

☐ 4. ₹18445

Question Type : MCQ

Question ID : 6306801076067

Status : Answered

Chosen Option : 1

Marks : 1

Q.7 In a certain code language, 'FERN' is coded as '3149' and 'RENT' is coded as '9813'. What is the code for 'T' in the given code language?

Ans ☐ 1. 3

☐ 2. 9

☐ 3. 1

☒ 4. 8

Question Type : MCQ

Question ID : 630680816669

Status : Answered

Chosen Option : 4

Marks : 1

Q.8 If 25% of k is 10 less than 3000% of 20, then k is:

Ans ☐ 1. 2320

☐ 2. 2340

☐ 3. 2400

☒ 4. 2360

Question Type : MCQ

Question ID : 630680591291

Status : Answered

Chosen Option : 4

Marks : 1

Q.9 Ashish bought 51 books for Rs 1135 from one shop and 48 books for Rs 925 from another. What is the average price (rounded off to two decimals, in Rs) he paid per book ?

- Ans**
- ☒ 1. 1023.18
 - ☒ 2. 1048.18
 - ☒ 3. 1033.18
 - ☒ 4. 1043.18

Question Type :	MCQ
Question ID :	630680573044
Status :	Answered
Chosen Option :	3
Marks :	1

Q.1 What should come in place of the question mark (?) in the given series based on the English alphabetical order?
XFM, YDN, ZBO, AZP, ?

- Ans**
- ☒ 1. AVP
 - ☒ 2. AWR
 - ☒ 3. CYP
 - ☒ 4. BXQ

Question Type :	MCQ
Question ID :	630680353968
Status :	Answered
Chosen Option :	4
Marks :	1

Section : Subject related questions

Q.1 The maximum reinforcement percentage allowed in a singly reinforced beam as per IS 456:2000 is ____.

- Ans**
- ☒ 1. 2%
 - ☒ 2. 8%
 - ☒ 3. 4%
 - ☒ 4. 6%

Question Type :	MCQ
Question ID :	6306801377173
Status :	Answered
Chosen Option :	3
Marks :	1

Q.2 A square column ABCD subjected to an eccentric load point load P is shown in figure, the maximum resultant stress in the column section develops at _____.



Ans ☒ 1. Corner C

☒ 2. Corner A

☒ 3. Corner D

☒ 4. Corner B

Question Type : MCQ

Question ID : 630680404099

Status : Answered

Chosen Option : 2

Marks : 1

Q.3 Which type of aggregate shows the highest level of bulking when moist?

Ans ☒ 1. Coarse aggregate

☒ 2. Sand

☒ 3. Crushed stone

☒ 4. Coarse gravel

Question Type : MCQ

Question ID : 6306801184123

Status : Answered

Chosen Option : 2

Marks : 1

Q.4 In a closed traverse, the closing error (e) is caused by discrepancies in measured latitudes (ΣL) and departures (ΣD) due to field measurement errors. The closing error is calculated using which of the following formulas?

Ans ☒ 1. $e = \Sigma L \times \Sigma D$

☒ 2. $e = \Sigma L / \Sigma D$

☒ 3. $e = \frac{\Sigma L + \Sigma D}{2}$

☒ 4. $e = \sqrt{(\Sigma L)^2 + (\Sigma D)^2}$

Question Type : MCQ

Question ID : 6306801377644

Status : Answered

Chosen Option : 4

Marks : 1

Q.5 Which coefficient is applied to the total measured area when estimating painting on corrugated steel sheets?

Ans ☒ 1. 14%

☐ 2. 10%

☐ 3. 25%

☐ 4. 20%

Question Type : MCQ

Question ID : 6306801377192

Status : Answered

Chosen Option : 2

Marks : 0

Q.6 Which equation is primarily used to analyse gravity-driven flow in open channels?

Ans ☒ 1. Manning's equation

☐ 2. Hagen-Poiseuille equation

☐ 3. Moody's equation

☐ 4. Darcy-Weisbach equation

Question Type : MCQ

Question ID : 6306801377627

Status : Answered

Chosen Option : 1

Marks : 1

Q.7 Which of the following statements correctly differentiates between the failure of short and long columns?

Ans ☐ 1. Short columns fail due to buckling, whereas long columns fail due to crushing.

☒ 2. Short columns fail due to crushing, whereas long columns fail due to buckling.

☐ 3. Both short and long columns primarily fail due to buckling.

☐ 4. Both short and long columns primarily fail due to crushing.

Question Type : MCQ

Question ID : 6306801378427

Status : Answered

Chosen Option : 2

Marks : 1

Q.8 As per the Bureau of Indian Standards, the standard sand used for mix design in concrete is ____.

Ans ☒ 1. Erode sand

☒ 2. Leighton-Burrard sand

☒ 3. Multani sand

☒ 4. Ennore sand

Question Type : MCQ

Question ID : 6306801378435

Status : Answered

Chosen Option : 4

Marks : 1

Q.9 Which class of bricks is commonly used for foundation?

Ans ☒ 1. First class bricks

☒ 2. Fourth class bricks

☒ 3. Third class bricks

☒ 4. Second class bricks

Question Type : MCQ

Question ID : 6306801379620

Status : Answered

Chosen Option : 1

Marks : 0

Q.10 In traffic actuated signals, the timings of the phase and the signals are changed ____.

Ans ☒ 1. on a monthly basis

☒ 2. according to traffic speed

☒ 3. on an hourly basis

☒ 4. according to traffic demand

Question Type : MCQ

Question ID : 6306801378236

Status : Answered

Chosen Option : 4

Marks : 1

Q.1 Why are aluminum pipes generally NOT recommended for pumping concrete in multi-storeyed building construction?

Ans ☒ 1. Form hydrogen gas

☒ 2. Smaller in diameter

☒ 3. Too heavy to handle

☒ 4. Not cost-effective

Question Type : **MCQ**

Question ID : **6306801379607**

Status : **Answered**

Chosen Option : **4**

Marks : **0**

Q.1 Which of the following is NOT a component of diversion headworks?

Ans ☒ 1. Silt excluder

☒ 2. Divide wall

☒ 3. Fish ladder

☒ 4. Surge tank

Question Type : **MCQ**

Question ID : **6306801378185**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.1 Find the maximum and minimum stress intensities in a hollow circular column section, given direct compressive stress = 7.28 N/mm^2 and bending stress at extreme fibre = $\pm 37.25 \text{ N/mm}^2$.

Ans ☒ 1. 44.53 N/mm^2 both (tensile and compressive)

☒ 2. 44.53 N/mm^2 (compressive) and 29.97 N/mm^2 (tensile)

☒ 3. 44.53 N/mm^2 (tensile) and 29.97 N/mm^2 (compressive)

☒ 4. 29.97 N/mm^2 both (tensile and compressive)

Question Type : **MCQ**

Question ID : **6306801380316**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.1 In joints of concrete pavements, contraction joints are spaced _____ expansion joints.

- Ans
- ☒ 1. equal to
 - ☒ 2. 1.5 times further than
 - ☒ 3. closer than
 - ☒ 4. two times further than

Question Type : MCQ

Question ID : 6306801378182

Status : Answered

Chosen Option : 1

Marks : 0

Q.1 For a rectangular channel to be most economical, the ratio of width of channel to depth of flow should be _____.

- Ans
- ☒ 1. 2 : 1
 - ☒ 2. 1 : 1
 - ☒ 3. 0.5 : 1
 - ☒ 4. 3 : 1

Question Type : MCQ

Question ID : 6306801377543

Status : Answered

Chosen Option : 1

Marks : 1

Q.1 Moh's scale is used to determine:

- Ans
- ☒ 1. fire resistance
 - ☒ 2. hardness
 - ☒ 3. flakiness
 - ☒ 4. density

Question Type : MCQ

Question ID : 6306801378429

Status : Answered

Chosen Option : 2

Marks : 1

Q.1 What does the term 'Job Layout' refer to in construction?

7

- Ans
- ☐ 1. A blueprint prepared by the architect to visualise the final project.
 - ☐ 2. A layout showing the electrical and plumbing systems in a building.
 - ☒ 3. A drawing prepared by the site engineer to scale, indicating all necessary requirements for the project.
 - ☐ 4. A diagram showing the structural integrity of a building.

Question Type : MCQ

Question ID : 6306801378361

Status : Answered

Chosen Option : 3

Marks : 1

Q.1 For application of the Terzaghi bearing capacity equation to square footing, the second term of the equation, ' qN_q ', is multiplied with:

8

- Ans
- ☐ 1. 1.2
 - ☒ 2. 1
 - ☐ 3. 0.8
 - ☐ 4. 0.5

Question Type : MCQ

Question ID : 6306801377660

Status : Answered

Chosen Option : 2

Marks : 1

Q.1 Identify the primary cause of accelerated soil erosion due to human activities.

9

- Ans
- ☐ 1. Climate variations
 - ☐ 2. Natural soil composition
 - ☒ 3. Overgrazing by livestock
 - ☐ 4. Wind and flowing water

Question Type : MCQ

Question ID : 6306801379690

Status : Answered

Chosen Option : 3

Marks : 1

Q.2 Where does the maximum shear stress occur, and what is its value relative to the average shear stress in a circular cross-section?

- Ans ☒ 1. At the centre; $\tau_{\max} = 2\tau_{\text{avg}}$
- ☒ 2. At the outer edge; $\tau_{\max} = \tau_{\text{avg}}$
- ☒ 3. At the centre; $\tau_{\max} = \frac{4}{3}\tau_{\text{avg}}$
- ☒ 4. At the outer edge; $\tau_{\max} = \frac{3}{4}\tau_{\text{avg}}$

Question Type : MCQ

Question ID : 6306801378421

Status : Answered

Chosen Option : 3

Marks : 1

Q.2 Which of the following is NOT a necessity of irrigation?

- Ans ☒ 1. Non uniform climatic conditions
- ☒ 2. Villages which depend on agriculture
- ☒ 3. Variation of geological property of soil
- ☒ 4. Same intensity of rainfall

Question Type : MCQ

Question ID : 630680647202

Status : Answered

Chosen Option : 3

Marks : 0

Q.2 What principle does the Schmidt hammer use for concrete testing?

- Ans ☒ 1. Ultrasonic testing principle
- ☒ 2. Penetration resistance principle
- ☒ 3. Rebound principle
- ☒ 4. Electrical conductivity principle

Question Type : MCQ

Question ID : 6306801379647

Status : Answered

Chosen Option : 3

Marks : 1

Q.2
3 Chezy's equation is used to calculate:

Ans ☒ 1. velocity of flow in open channels

☐ 2. energy loss in turbines

☐ 3. pressure drop in pipe networks

☐ 4. lift force on a submerged body

Question Type : MCQ

Question ID : 6306801377521

Status : Answered

Chosen Option : 1

Marks : 1

Q.2
4 In cold weather, why should strong cement mortars be avoided, except where high strength is an essential requirement?

Ans ☐ 1. Develop strength slowly

☐ 2. Costlier to produce

☐ 3. Require more water

☒ 4. Prone to shrinkage cracks

Question Type : MCQ

Question ID : 6306801379650

Status : Answered

Chosen Option : 4

Marks : 1

Q.2
5 The opening of joints of cement concrete roads is the widest:

Ans ☐ 1. post monsoon season

☐ 2. during rainy season

☐ 3. during summer season

☒ 4. during winter season

Question Type : MCQ

Question ID : 6306801378140

Status : Answered

Chosen Option : 4

Marks : 1

Q.2 Hazard markers reflecting yellow light should be visible from a long distance of about
6 how many metres?

Ans ✓ 1. 150

✗ 2. 100

✗ 3. 50

✗ 4. 75

Question Type : MCQ

Question ID : 630680377369

Status : Answered

Chosen Option : 4

Marks : 0

Q.2 What is the primary purpose of a sinking fund in property valuation?
7

Ans ✗ 1. To increase property value immediately

✗ 2. To reduce annual tax liabilities

✓ 3. To create a deposit for the replacement of the building or structure after its useful life

✗ 4. To finance the purchase of new land

Question Type : MCQ

Question ID : 6306801377210

Status : Answered

Chosen Option : 3

Marks : 1

Q.2 IRC suggests a minimum gradient of ____ for roads if concrete drains are provided.
8

Ans ✓ 1. 1 in 500

✗ 2. 1 in 250

✗ 3. 1 in 100

✗ 4. 1 in 200

Question Type : MCQ

Question ID : 6306801378193

Status : Answered

Chosen Option : 4

Marks : 0

Q.2 A beam is supported at both ends, with one end having a pinned support and the other end having a roller support. This type of beam is classified as a:

Ans ☒ 1. Cantilever beam

☒ 2. Simply Supported beam

☒ 3. Fixed beam

☒ 4. Overhanging beam

Question Type : **MCQ**

Question ID : **6306801378457**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.3 Crown glass is made by adding alumina and magnesium oxide in _____.

Ans ☒ 1. wired glass

☒ 2. soda-lime glass

☒ 3. boro-silicate glass

☒ 4. tempered glass

Question Type : **MCQ**

Question ID : **6306801378352**

Status : **Answered**

Chosen Option : **1**

Marks : **0**

Q.3 Which of the following failure patterns is typically NOT a primary consideration in the stability criterion for the design of a masonry gravity dam?

Ans ☒ 1. Failure due to overtopping

☒ 2. Failure due to tensile stresses

☒ 3. Failure by overturning

☒ 4. Failure by sliding on the soil on which it rests

Question Type : **MCQ**

Question ID : **630680426097**

Status : **Answered**

Chosen Option : **1**

Marks : **1**

Q.3 As per standard measurement principles, how should plastering work be measured?
2

Ans ✓ 1. In square metres, deducting for openings

✗ 2. In linear metres

✗ 3. In cubic metres

✗ 4. By counting the number of walls

Question Type : **MCQ**

Question ID : **6306801377207**

Status : **Answered**

Chosen Option : **1**

Marks : **1**

Q.3 Identify the factors on which the skid resistance of a pavement is dependent.
3

I: Type of pavement

II: Speed of vehicle

III: Temperature of tyre and pavement

IV: Fuel efficiency of the vehicle

Ans ✗ 1. II and III only

✓ 2. I, II and III only

✗ 3. I, III and IV only

✗ 4. I and II only

Question Type : **MCQ**

Question ID : **6306801378106**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.3 What are the acceptable methods of earthworks filling according to NHBC?
4

Ans ✗ 1. Vibratory compaction and roller compaction

✓ 2. Conventional compaction and non-standard compaction

✗ 3. Hydraulic filling and mechanical filling

✗ 4. Dry compaction and wet compaction

Question Type : **MCQ**

Question ID : **6306801379631**

Status : **Answered**

Chosen Option : **4**

Marks : **0**

Q.3
5 The cost estimation of flexible pavements primarily depends on which factor?

- Ans** ☒ 1. Type of cement used
- ☒ 2. Thickness of pavement layers
- ☒ 3. Number of expansion joints
- ☒ 4. Type of steel reinforcement

Question Type : **MCQ**

Question ID : **6306801377196**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.3
6 A proper supervision and maintenance of rail fixtures and fastenings is required for which of the following reasons?
I.Corrugations
II.Buckling
III.Cracks
IV.Corrosion

- Ans** ☒ 1. (i), (ii), (iii)
- ☒ 2. (i), (ii), (iii), (iv)
- ☒ 3. (i), (ii), (iv)
- ☒ 4. (ii), (iii), (iv)

Question Type : **MCQ**

Question ID : **630680198243**

Status : **Answered**

Chosen Option : **2**

Marks : **1**

Q.3
7 What is the primary role of labour in the construction industry?

- Ans** ☒ 1. Provide financial support to the project
- ☒ 2. Ensure that all legal regulations are followed
- ☒ 3. Perform physical tasks such as building, excavating, or installing
- ☒ 4. Manage the design and blueprint of the construction

Question Type : **MCQ**

Question ID : **6306801378389**

Status : **Answered**

Chosen Option : **3**

Marks : **1**

Q.3 Which of the following is the first step in the construction of a flyover?
8

- Ans**
- ☒ 1. Bed concreting
 - ☒ 2. Deck slab construction
 - ☒ 3. Setting out the flyover alignment and pier areas
 - ☒ 4. Building the pier caps and abutments at the same time

Question Type : **MCQ**

Question ID : **630680328373**

Status : **Answered**

Chosen Option : **3**

Marks : **1**

Q.3 Which group in NBC 2016 classification represents Educational Buildings?
9

- Ans**
- ☒ 1. Group D
 - ☒ 2. Group C
 - ☒ 3. Group A
 - ☒ 4. Group B

Question Type : **MCQ**

Question ID : **6306801379619**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.4 Which of the following is NOT typically a basin in which the flow of the water is retarded in plain sedimentation?
0

- Ans**
- ☒ 1. Trash racks
 - ☒ 2. Clarifier
 - ☒ 3. Sedimentation basin
 - ☒ 4. Settling tank

Question Type : **MCQ**

Question ID : **6306801381760**

Status : **Answered**

Chosen Option : **2**

Marks : **0**

Q.4
1 What mechanism allows a sliding door to open and close?

Ans ☒ 1. Wheels and guides

☐ 2. Hinges

☐ 3. Fixed brackets

☐ 4. Double-action spring hinges

Question Type : MCQ

Question ID : 6306801379621

Status : Answered

Chosen Option : 1

Marks : 1

Q.4
2 Which principle is important in designing a building drainage system?

Ans ☐ 1. There is no need for vent pipes if the slope is steep.

☒ 2. The pipe size and slope should be proper for smooth flow.

☐ 3. The main pipe should end below the building.

☐ 4. There should be sharp bends in pipes for faster flow.

Question Type : MCQ

Question ID : 6306801381779

Status : Answered

Chosen Option : 2

Marks : 1

Q.4
3 In a soil's three-phase diagram, if the volume of solids is taken as 1 and the void ratio is e , then the total volume of soil will be represented as:

Ans ☒ 1. $1 + e$

☐ 2. 1

☐ 3. $2e$

☐ 4. $1 - e$

Question Type : MCQ

Question ID : 630680504517

Status : Answered

Chosen Option : 1

Marks : 1

Q.4 Which of the following components does NOT fall under direct cost of an accident at a construction site?

- Ans
- ☒ 1. Increased insurance premium
 - ☒ 2. Slowdown in the operations
 - ☒ 3. Legal counsel fee
 - ☒ 4. Medical expenses for the injured

Question Type : MCQ

Question ID : 630680206238

Status : Answered

Chosen Option : 4

Marks : 0

Q.4 Which of the following is used for the construction of laminated boards?

- Ans
- ☒ 1. Gypsum board
 - ☒ 2. Block board
 - ☒ 3. Fibre board
 - ☒ 4. Veneer

Question Type : MCQ

Question ID : 6306801378399

Status : Answered

Chosen Option : 4

Marks : 1

Q.4 Which of the following is NOT a waste product of manufacture of plastic raw materials?

- Ans
- ☒ 1. Chemical sludge
 - ☒ 2. Non-polymerised residues
 - ☒ 3. Residues of plasticisers
 - ☒ 4. Residues of stabilisers

Question Type : MCQ

Question ID : 630680509481

Status : Answered

Chosen Option : 1

Marks : 1

Q.4 What makes smart concrete stronger than conventional concrete?
7

Ans ☒ 1. Inclusion of carbon fibres

☐ 2. Larger aggregate size

☐ 3. Higher water content

☐ 4. Increased cement ratio

Question Type : MCQ

Question ID : 6306801379598

Status : Answered

Chosen Option : 1

Marks : 1

Q.4 Which equipment is essential for producing and delivering Ready Mixed Concrete (RMC)?
8

Ans ☐ 1. Hand mixer and wheelbarrow

☐ 2. Manual cement mixer and portable water tank

☐ 3. Hand mixer and portable water tank

☒ 4. Centralised automatic batching plant and transit mixer truck

Question Type : MCQ

Question ID : 6306801379592

Status : Answered

Chosen Option : 4

Marks : 1

Q.4 What is the recommended minimum grade of concrete for reinforced concrete (RCC) water tanks as per IS 3370:2009?
9

Ans ☐ 1. M15

☐ 2. M25

☒ 3. M30

☐ 4. M20

Question Type : MCQ

Question ID : 6306801377177

Status : Answered

Chosen Option : 3

Marks : 1

Q.5 What is the line of intersection of the Earth's surface by a plane containing the true North Pole, the true South Pole, and the observer's position called?

- Ans**
- ☒ 1. Grid meridian
 - ☒ 2. True meridian
 - ☒ 3. Magnetic meridian
 - ☒ 4. Local meridian

Question Type :	MCQ
Question ID :	6306801377636
Status :	Answered
Chosen Option :	2
Marks :	1

Q.5 With reference to highway engineering, identify the 'non-collision accident' from the following.

- Ans**
- ☒ 1. Collision with a rail train
 - ☒ 2. Overturning on the runway
 - ☒ 3. Crashing into a fixed object
 - ☒ 4. Accident with a bicycle

Question Type :	MCQ
Question ID :	6306801378221
Status :	Answered
Chosen Option :	3
Marks :	0

Q.5 Micro optic theodolite is used for _____ measurement in modern surveying equipment.

- Ans**
- ☒ 1. depth measurement
 - ☒ 2. angle measurement
 - ☒ 3. slope distance measurement
 - ☒ 4. angle and slope distance measurement

Question Type :	MCQ
Question ID :	630680380576
Status :	Answered
Chosen Option :	2
Marks :	0

Q.5 Which of the following units is used to express the specific conductivity of water, as measured by a portable dionic water tester at 25°C?

- Ans
- ☐ 1. Milligrams per litre
 - ☐ 2. Micromoles per litre
 - ☐ 3. Micrograms per litre
 - ☒ 4. Micro-mhos per cm

Question Type : MCQ

Question ID : 6306801381757

Status : Answered

Chosen Option : 1

Marks : 0

Q.5 Biogas, liquefied petroleum gas and natural gas are the sources used as a fuel to generate heat energy. Which of these fuels has/have the highest calorific value?

- Ans
- ☐ 1. Natural gas
 - ☐ 2. Natural gas and biogas
 - ☒ 3. Liquefied petroleum gas
 - ☐ 4. Biogas

Question Type : MCQ

Question ID : 630680191276

Status : Answered

Chosen Option : 3

Marks : 1

Q.5 What is the purpose of a geological survey in an irrigation project?

- Ans
- ☐ 1. To determine the climatic conditions of the region
 - ☐ 2. To determine crop water requirements
 - ☐ 3. To analyse the chemical properties of irrigation water
 - ☒ 4. To study soil and rock conditions for dam and canal construction

Question Type : MCQ

Question ID : 6306801378141

Status : Answered

Chosen Option : 4

Marks : 1

Q.5 Which of the following statements is correct about the magnetic declination in consideration of compass surveying?

- Ans** ☒ 1. The angle of convergence between the true north and the magnetic north at any place remains constant.
- ☒ 2. If the magnetic meridian is on the eastern side of the true meridian, the declination is said to be negative declination.
- ☒ 3. If the magnetic meridian is on the western side of the true meridian, the declination is said to be positive declination.
- ☒ 4. When both true and magnetic meridians coincide, the magnetic declination is zero.

Question Type : **MCQ**

Question ID : **630680382425**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.5 Which of the following is a key assumption in the Limit State Method for flexural strength analysis of RCC beams?

- Ans** ☒ 1. The stress-strain relationship for steel is non-linear
- ☒ 2. The neutral axis does not exist
- ☒ 3. The strain in concrete is uniform across the section
- ☒ 4. Tensile strength of concrete is ignored

Question Type : **MCQ**

Question ID : **6306801377175**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.5 For accurate surveys and investigations, which of the following studies are needed?

- 8 (i) Pavement evaluation studies
(ii) Drainage studies
(iii) Topographic surveys
(iv) Traffic surveys

- Ans** ☒ 1. (i), (ii)
- ☒ 2. (ii), (iii), (iv)
- ☒ 3. (ii), (iii)
- ☒ 4. (i), (ii), (iii), (iv)

Question Type : **MCQ**

Question ID : **630680198643**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.5 Which of the following is NOT an importance of coating in solar devices?

- Ans**
- ☒ 1. Increased durability
 - ☒ 2. Decreased reflection
 - ☒ 3. Improved absorption
 - ☒ 4. Decreased absorption

Question Type : **MCQ**

Question ID : **630680370961**

Status : **Answered**

Chosen Option : **4**

Marks : **1**

Q.6 What is the primary advantage of the direct shear test over other shear tests?

- Ans**
- ☒ 1. It is quicker to perform.
 - ☒ 2. Drainage conditions can be controlled.
 - ☒ 3. It requires soil sample of a smaller size.
 - ☒ 4. It provides more accurate results.

Question Type : **MCQ**

Question ID : **630680375890**

Status : **Answered**

Chosen Option : **1**

Marks : **1**