



Delhi Development Authority (Recruitment Cell)

Advertisement No. 03/2022/Recdt.Cell./Pers./DDA

ParticipantID	
ParticipantName	
TestCenterName	ION Digital Zone iDZ 2 SECTOR 62
Test Date	03/04/2023
TestTime	4:30PM-6:30PM
Subject	JuniorEngineer(ElectricalorMechanical)

Section:DomainQuestions(Electrical)

Q.1 Which of the following elements is NOT a part of a transmission line?

- Ans
- 1.Support
 - ✓2.Load
 - ✗3.Line insulator
 - ✗4.Conductor

QuestionID:630680198086

Status:Answered

ChosenOption:2

Q.2What will be the potential energy of a block having mass of 1 kg at a height of 5 m from the ground?

- Ans
- ✗1.98 J
 - ✗2.89 J
 - ✓3.49 J
 - ✗4.94 J

QuestionID:630680198094

Status:Answered

ChosenOption:3

Q.3 If the capacitance between two conductors of a 3-phase transmission line is 10 μF , then the capacitance of each conductor to neutral is _____.

- Ans
- ✗1.10 μF
 - ✗2.30 μF
 - ✗3.5 μF
 - ✓4.20 μF

QuestionID:630680198089

Status:Answered

ChosenOption:4

Test Prime

**ALL EXAMS,
ONE SUBSCRIPTION**



70,000+
Mock Tests



**Personalised
Report Card**



**Unlimited
Re-Attempt**



600+
Exam Covered



**Previous Year
Papers**



**500%
Refund**



ATTEMPT FREE MOCK NOW

Q.4 In overhead transmission lines, the annual cost of energy wasted in the conductor is:

Ans ☒ 1.

inversely proportional to the area of cross section of the conductor

2. inversely proportional to the resistance of the conductor

3.

directly proportional to the area of cross section of the conductor

4. independent of the resistance of the conductor

QuestionID:630680198087

Status:Answered

ChosenOption:3

Q.5 Find the maximum permissible current through a $400\text{-}\Omega$, 1-W resistor.

Ans ☐ 1. 5 mA

☐ 2. 1 mA

☐ 3. 10 mA

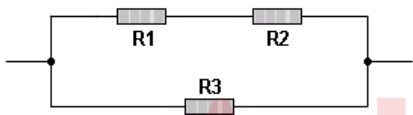
☒ 4. 50 mA

QuestionID:630680198067

Status:Answered

ChosenOption:4

Q.6 Find the total resistance for following circuit, if $R_1 = R_2 = 5\text{ }\Omega$ and $R_3 = 40\text{ }\Omega$.



Ans ☒ 1. $8\text{ }\Omega$

☐ 2. $50\text{ }\Omega$

☐ 3. $10\text{ }\Omega$

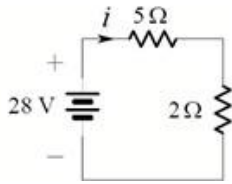
☐ 4. $5\text{ }\Omega$

QuestionID:630680198071

Status:Answered

ChosenOption:1

Q.7 Find the voltage drop across a $5\text{-}\Omega$ resistor in the following circuit.



- Ans
1. 16 V
 2. 24 V
 - ✓ 3. 20 V
 4. 8 V

QuestionID:630680198068
Status:Answered
ChosenOption:3

Q.8 Which of the following relations is correct as per Ohm's law?

- Ans
1. $R = V \times I$
 2. $P = I \times R^2$
 - ✓ 3. $V = I \times R$
 4. $I = R \times V$

QuestionID:630680198066
Status:Answered
ChosenOption:3

Q.9 Which of the following types of support is the most suitable for high voltage long distance overhead transmission lines?

- Ans
1. Wooden poles
 - ✓ 2. Steel towers
 3. Steel poles
 4. RCC poles

QuestionID:630680198090
Status:Answered
ChosenOption:3

Q.10 With reference to an AC transmission system, state true/false for the following statements.

Statement 1: AC circuit breakers are cheaper than DC circuit breakers.

Statement 2: In an AC line, the size of the conductor is greater than that in a DC line.

- Ans
- 1. Statement 1 is false; Statement 2 is true
 - ✗ 2. Statement 1 is false; Statement 2 is false
 - ✗ 3. Statement 1 is true; Statement 2 is false
 - ✓ 4. Statement 1 is true; Statement 2 is true

QuestionID:630680198093
Status:Answered
ChosenOption:4

Q.11 In a synchronous generator, the coil span factor is unity. What will be the angle of short pitch?

- Ans
- 1. 90°
 - ✓ 2. 0°
 - ✗ 3. 30°
 - ✗ 4. 60°

QuestionID:630680198101
Status:Answered
ChosenOption:1

Q.12 In the rheostatic control method of speed control of a DC motor, which of the following parameters is varied to control the speed?

- Ans
- 1. Field voltage
 - ✗ 2. Armature voltage
 - ✓ 3. Armature resistance
 - ✗ 4. Field flux

QuestionID:630680198105
Status:Answered
ChosenOption:3

Q.13 The relationship between the flux density and field intensity of a magnetic material is called the _____.

- Ans
- 1. saturation curve
 - ✓ 2. magnetization curve
 - ✗ 3. polarization curve
 - ✗ 4. hysteresis curve

QuestionID:630680198079
Status:Answered
ChosenOption:2

Q.14 A sinusoidal voltage is expressed as $v(t) = 250 \sin 1256t$. Find the frequency.

Ans ☒ 1.

☒ 2. 100 Hz

☒ 3. 400 Hz

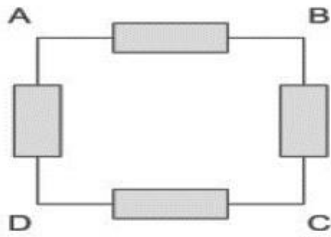
☒ 4. 50 Hz

QuestionID:630680198080

Status:Answered

ChosenOption:1

Q.15 As per Kirchhoff's voltage law, select the correct formula for the following circuit.



Ans ☒ 1. $V_{AB} + V_{BC} + V_{CD} + V_{DA} = 0$

☒ 2. $V_{AB} + V_{CB} + V_{DC} + V_{DA} = 0$

☒ 3. $V_{AB} + V_{BC} + V_{CD} + V_{AD} = 0$

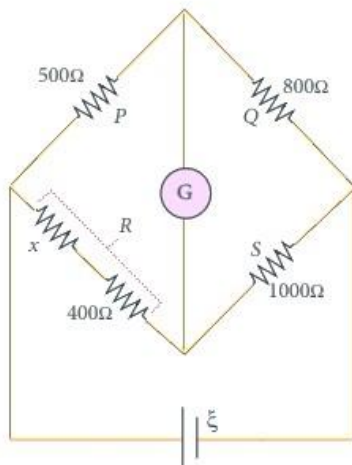
☒ 4. $V_{AB} + V_{BC} + V_{DC} + V_{DA} = 0$

QuestionID:630680198075

Status:Answered

ChosenOption:1

Q.16 Find the voltage 'x' in the following network when the bridge is balanced.



- Ans
- ☒ 1. 825 Ω
 - ☒ 2. 625 Ω
 - ☒ 3. 225 Ω
 - ☒ 4. 425 Ω

QuestionID:630680198072
Status:Answered
ChosenOption:3

Q.17 Two metres X and Y require 30 mA and 60 mA, respectively, for full scale deflection. Which of the following statements is correct?

- Ans
- ☒ 1. Data is not sufficient to decide the sensitivity.
 - ☒ 2. Both are equally sensitive.
 - ☒ 3. X is more sensitive than Y.
 - ☒ 4. Y is more sensitive than X.

QuestionID:630680198084
Status:Answered
ChosenOption:3

Q.18 With reference to the generalized circuit constants of transmission lines, the unit of constant C is _____.

- Ans
- ☒ 1. Ohm
 - ☒ 2. Volt
 - ☒ 3. Mho
 - ☒ 4. Ampere

QuestionID:630680198085
Status:Answered
ChosenOption:3

Q.19 Which parameter in a magnetic circuit is measured in AT/Wb?

- Ans
- ☒ 1. Reluctance
 - ☐ 2. Magnetomotive force
 - ☐ 3. Flux density
 - ☐ 4. Permeance

QuestionID:630680198077
Status:Answered
ChosenOption:1

Q.20 Which of the following types of single-phase induction motors requires two capacitors?

- Ans
- ☐ 1. Permanent split capacitor motor
 - ☒ 2. Capacitor start-capacitor run motor
 - ☐ 3. Capacitor start induction motor
 - ☐ 4. Split phase induction motor

QuestionID:630680198097
Status:Answered
ChosenOption:2

Q.21 If an induction motor is made to run at synchronous speed, the value of slip will be ____.

- Ans
- ☒ 1. Zero
 - ☐ 2. 0.9
 - ☐ 3. 1.0
 - ☐ 4. 0.5

QuestionID:630680198095
Status:Answered
ChosenOption:1

Q.22 Which method of finding voltage regulation of alternator is known as the E.M.F. method?

- Ans
- ☐ 1. Ampere-turn method
 - ☐ 2. Zero-power factor method
 - ☐ 3. Potier method
 - ☒ 4. Synchronous impedance method

QuestionID:630680198099
Status:Answered
ChosenOption:4

Q.23 With reference to the corona effect in transmission lines, which of the following statements is INCORRECT?

Ans

- 1. Ozone is produced by corona.
- ✓ 2. The current drawn by the line due to corona is sinusoidal.
- ✗ 3. It reduces the transmission efficiency.
- ✗ 4. Corona effect can be reduced by increasing conductor size.

QuestionID:630680198091
Status:Answered
ChosenOption:2

Q.24 The area of the cross section of a wire becomes half when the wire is stretched to double its length. How is the resistance of the wire affected in the new condition?

Ans

- 1. Resistance will remain the same
- ✓ 2. Resistance will be four times
- ✗ 3. Resistance will be doubled
- ✗ 4. Resistance will be halved

QuestionID:630680198070
Status:Answered
ChosenOption:2

Q.25 With reference to a DC transmission, which of the following statements is INCORRECT?

Ans

- ✓ 1. Corona losses are very high.
- ✗ 2. There are no inductance and surges in a DC transmission.
- ✗ 3. DC system is more efficient than AC.
- ✗ 4. There is no skin effect in a DC transmission.

QuestionID:630680198092
Status:Answered
ChosenOption:1

Q.26 Which motor exhibits the characteristics shown below?



- Ans
1. DC cumulative compound motor
 2. DC differentially compound motor
 3. DC shunt motor
 4. DC series motor

QuestionID:630680198104
Status:Answered
ChosenOption:4

Q.27 Find the current 'I' in following circuit.



- Ans
1. 0.2 A
 2. 0.6 A
 3. 0.8 A
 4. 0.4 A

QuestionID:630680198073
Status:Answered
ChosenOption:2

Q.28 State true/false for the following statements.

Statement 1: For vacuum, susceptibility is zero.

Statement 2: A toroidal magnet has no air gap.

- Ans
- ☐ 1. Statement 1 is false; Statement 2 is false
 - ☒ 2. Statement 1 is true; Statement 2 is true
 - ☐ 3. Statement 1 is true; Statement 2 is false
 - ☐ 4. Statement 1 is false; Statement 2 is true

QuestionID:630680198078
Status:Answered
ChosenOption:3

Q.29 10 resistors are connected in series. If each resistor is of $220\ \Omega$, find the effective resistance of the series.

- Ans
- ☐ 1. $220\ \text{k}\Omega$
 - ☐ 2. $22\ \Omega$
 - ☒ 3. $2.2\ \text{k}\Omega$
 - ☐ 4. $22\ \text{k}\Omega$

QuestionID:630680198074
Status:Answered
ChosenOption:3

Q.30 In a transmission line, the receiving end power is 200 kW. If the transmission efficiency is 80%, find the line losses.

- Ans
- ☐ 1. 20 W
 - ☐ 2. 40 W
 - ☐ 3. 60 W
 - ☒ 4. 50 W

QuestionID:630680198088
Status:Answered
ChosenOption:4

Q.31 In a series RLC circuit, at resonance the _____ is zero.

- Ans
- ☐ 1. impedance
 - ☐ 2. capacitance
 - ☒ 3. net reactance
 - ☐ 4. resistance

QuestionID:630680198082
Status:Answered
ChosenOption:3

Q.32 An RLC series circuit has $R = 2 \Omega$ and $C = 20 \mu F$ and the resonance frequency of 1000 rad/sec. Find the Q-factor.

- Ans
- ☒ 1. 30
 - ☒ 2. 25
 - ☒ 3. 45
 - ☒ 4. 50

QuestionID:630680198083
Status:NotAnswered
Chosen Option :--

Q.33 A straight repulsion type motor has _____ starting torque and _____ starting current.

- Ans
- ☒ 1. low; high
 - ☒ 2. high; moderate
 - ☒ 3. high; negligible
 - ☒ 4. low; negligible

QuestionID:630680198098
Status:NotAnswered
Chosen Option :--

Q.34 With reference to alternators, state true/false for the following statements.

Statement 1: Rotating field system eliminates the problem of sparking at the slip-rings.

Statement 2: Most alternators have stator armature and rotor as field.

- Ans
- ☒ 1. Statement 1 is true; Statement 2 is true
 - ☒ 2. Statement 1 is false; Statement 2 is true
 - ☒ 3. Statement 1 is true; Statement 2 is false
 - ☒ 4. Statement 1 is false; Statement 2 is false

QuestionID:630680198100
Status:Answered
ChosenOption: 1

Q.35 A 4-pole wave connected DC generator has 360 conductors and is rotated at 1000 rpm. Find the generated voltage if the useful flux per pole is 30 mWb.

- Ans
- ☒ 1. 240 V
 - ☒ 2. 480 V
 - ☒ 3. 360 V
 - ☒ 4. 720 V

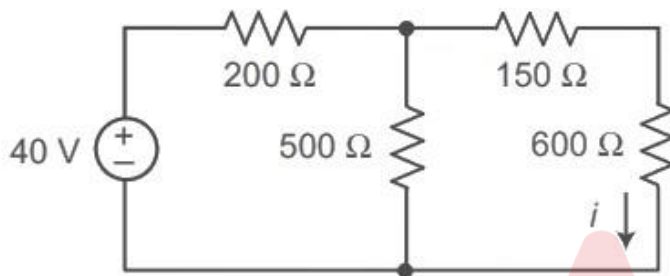
QuestionID:630680198103
Status:Answered
ChosenOption:3

Q.36 Find the peak to peak value of the sinusoidal current represented as $i(t) = 400 \sin 314t$.

- Ans
- ☒ 1.800 A
 - ☐ 2.600 A
 - ☐ 3.400 A
 - ☐ 4.200 A

QuestionID:630680198081
Status:Answered
ChosenOption:1

Q.37 Find the current 'i' in the following circuit.



- Ans
- ☐ 1.40 mA
 - ☒ 2.32 mA
 - ☐ 3.48 mA
 - ☐ 4.80 mA

QuestionID:630680198076
Status:Answered
ChosenOption:2

Q.38 The two components of the power developed by a salient-pole synchronous motor are:

- Ans
- ☐ 1. excitation power and magnet power
 - ☐ 2. friction power and windage power
 - ☐ 3. reluctance power and friction power
 - ☒ 4. excitation power and reluctance power

QuestionID:630680198102
Status:Answered
ChosenOption:4

Q.39 A 3-phase, 50-Hz, 4-pole induction motor runs at a speed of 1400 rpm. Find the slip speed.

- Ans ☒ 1. 100 rpm
☒ 2. 50 rpm
☒ 3. 1500 rpm
☒ 4. 1400 rpm

QuestionID:630680198096
 Status:Answered
 ChosenOption: 1

Q.40 Which of the following materials has the highest resistivity?

- Ans ☒ 1. Insulator
☒ 2. Semiconductor
☒ 3. Super conductor
☒ 4. Conductor

QuestionID:630680198069
 Status:Answered
 ChosenOption: 1

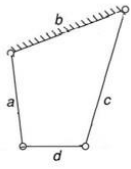
Section:DomainQuestions(Mechanical)

Q.1 Which of the following methods is an example of an air-cooling system for engines?

- Ans ☒ 1. Thermosyphon system
☒ 2. Pressure cooling system
☒ 3. Cooling fins
☒ 4. Non-return system

QuestionID:630680198120
 Status:Answered
 ChosenOption:3

Q.2 Consider a four-link mechanism shown in the given figure. If link **b** is fixed and the shortest link **d** is made a coupler, read the statements that follow and select the correct answer.



Statements:

- A) Links **a** and **c** would oscillate.
- B) This mechanism is known as double-rocker mechanism.

- Ans
- ☒ 1. Both statements **A** and statement **B** are incorrect.
 - ☒ 2. Statement **A** is incorrect, but statement **B** is correct.
 - ☒ 3. Both statements **A** and **B** are correct.
 - ☒ 4. Statement **A** is correct, but statement **B** is incorrect.

QuestionID:630680198138

Status:NotAnswered

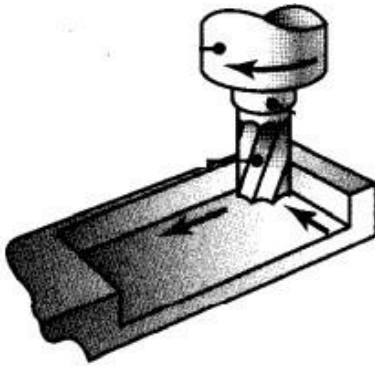
Chosen Option :--



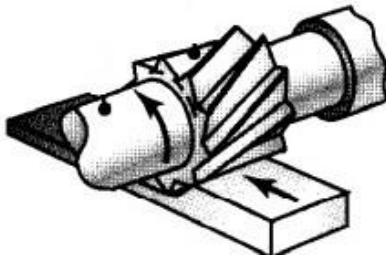
Q.3 Out of the following milling operations, which one best represents the end-milling operation?

Ans

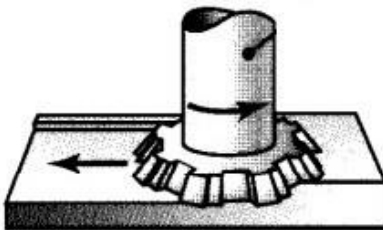
✓1.



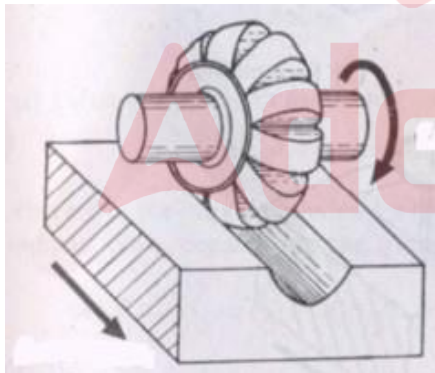
✗2.



✗3.



✗4.



QuestionID:630680198129
Status:Answered
ChosenOption:1

Q.4 For a casting with gates at its two sides, the misrun may show up at the centre of the casting. This defect is known as _____.

- Ans
- ✓1. cold shut
 - ✗2. hot tear
 - ✗3. porosity
 - ✗4. gas hole

QuestionID:630680198124
Status:NotAnswered
Chosen Option :--

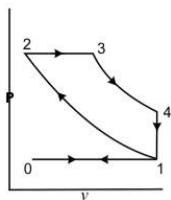
Q.5 For a gear, the circle passing through the roots of the teeth is known as _____.

- Ans
- ✗1. addendum circle
 - ✓2. dedendum circle
 - ✗3. dedendum
 - ✗4. addendum

QuestionID:630680198144
Status:Answered
ChosenOption:2

Q.6 The efficiency of an air standard diesel cycle, represented by the following P-v diagram, is _____.

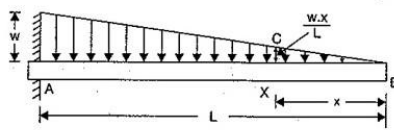
(Where $r_0 = \frac{V_1}{V_2}$, $r_c = \frac{V_3}{V_2}$, and γ represent the ratio of specific heats at constant pressure and constant volume)



- Ans
- ✓1. $1 - \frac{\{(r_c)^\gamma - 1\}}{\gamma (r_0)^{\gamma-1} (r_c - 1)}$
 - ✗2. $1 - \frac{\{(r_c)^{\gamma-1} - 1\}}{(\gamma - 1)(r_0)^{\gamma-2} (r_c - 1)}$
 - ✗3. $1 - \frac{(r_0)^{\gamma-2} (r_c - 1)}{(\gamma - 1)\{(r_c)^{\gamma-1} - 1\}}$
 - ✗4. $1 - \frac{(r_0)^{\gamma-1} (r_c - 1)}{\gamma \{(r_c)^\gamma - 1\}}$

QuestionID:630680198119
Status:Answered
ChosenOption:2

Q.7 Based on the following two statements related to cantilever beam subjected to a gradually varying load (refer to the given figure), select the correct answer.



Statements:

A) The shear force diagram is parabolic in nature with maximum value at point A.

B) The bending moment diagram is cubic in nature.

Ans ☒ 1. Both statements A and statement B are incorrect.

☒ 2. Both statements A and B are correct.

☒ 3. Statement A is correct, but statement B is incorrect.

☒ 4. Statement A is incorrect, but statement B is correct.

QuestionID:630680198133

Status:NotAnswered

Chosen Option :--

Q.8 For a circular shaft of radius R, subjected to torsion, the relationship between τ (shear stress), R, G (modulus of rigidity), θ (angle of twist) and L (length of shaft) is _____.

Ans ☒ 1. $\frac{\tau}{R} = \frac{G}{L\theta}$

2. $\frac{\tau}{L} = \frac{G}{R\theta}$

3. $\frac{\tau}{R} = \frac{G\theta}{L}$

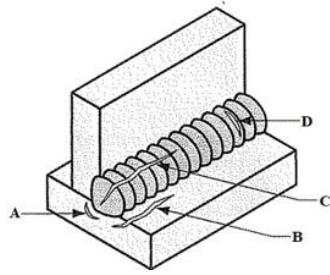
4. $\frac{\tau}{L} = \frac{G\theta}{R}$

QuestionID:630680198137

Status:NotAnswered

Chosen Option :--

Q.9 Of the various forms of welding cracks shown in the given figure, which is the underbead crack?



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

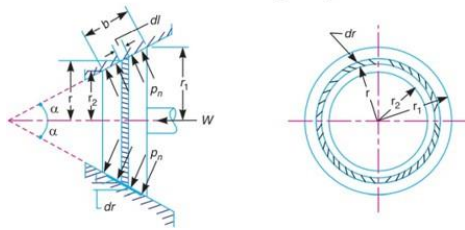
QuestionID:630680198127

Status:Answered

ChosenOption:3

Q.10 When the wear is uniform over the cone clutch as shown in the given figure, the total frictional torque developed is

(Where W is the axial thrust, $R = \left[\frac{r_1 + r_2}{2} \right]$, μ is the coefficient of friction, α is semi angle of the cone)



- Ans
- ☒ 1. $\frac{2}{3} \mu WR \cdot \text{cosec}(\alpha)$
 - ☒ 2. $\frac{1}{2} \mu WR \cdot \text{cosec}(\alpha)$
 - ☒ 3. $\frac{3}{2} \mu WR \cdot \text{cosec}(\alpha)$
 - ☒ 4. $\mu WR \cdot \text{cosec}(\alpha)$

QuestionID:630680198142

Status:NotAnswered

Chosen Option :--

Q.11 Lathes that do NOT have tailstocks are called _____.

- Ans
- 1. tracer lathes
 - ✓ 2. chucking machines
 - ✗ 3. bar machines
 - ✗ 4. bench lathes

QuestionID:630680198128
Status:NotAnswered
Chosen Option :--

Q.12 In a steam turbine, the angle which the absolute velocity of steam at inlet makes with the plane of moving blades is known as a/an _____.

- Ans
- ✓ 1. nozzle angle
 - ✗ 2. inlet angle of fixed blade
 - ✗ 3. exit angle of moving blade
 - ✗ 4. inlet angle of moving blade

QuestionID:630680198121
Status:Answered
ChosenOption:4

Q.13 Proof resilience is given by _____.

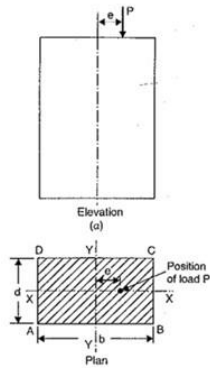
(Where E, σ and V are Young's modulus, stress and volume, respectively).

- Ans
- ✗ 1. $\frac{V \cdot \sigma^2}{E}$
 - 2. $\frac{V \cdot \sigma^2}{2 \cdot E}$
 - ✗ 3. $\frac{2 \cdot E}{V \cdot \sigma^2}$
 - ✗ 4. $\frac{E}{V \cdot \sigma^2}$

QuestionID:630680198132
Status:Answered
ChosenOption:2

Q.14 The maximum stress of a rectangular section subjected to an eccentric load as shown in the given figure is _____.

(Where $A = b.d$)



Ans

1. $\frac{P}{A} \left(1 - \frac{e}{6.b} \right)$

2. $\frac{P}{A} \left(1 + \frac{6.e}{b} \right)$

3. $\frac{P}{A} \left(1 - \frac{6.e}{b} \right)$

4. $\frac{P}{A} \left(1 + \frac{e}{6.b} \right)$

QuestionID:630680198135

Status:NotAnswered

Chosen Option :--

Q.15 Bernoulli's equation can be obtained by single scalar integral of _____.

Ans

1. the momentum equation

2. the Darcy-Weisbach equation

3. the continuity equation

4. Euler's equation

QuestionID:630680198108

Status:Answered

ChosenOption:4

Q.16 _____ is the relationship between Poisson's ratio (γ), bulk modulus of elasticity (K), and modulus of rigidity (G).

- Ans
- ☒ 1. $\gamma = \frac{2(G + 3K)}{(3K - 2G)}$
- ☐ 2. $\gamma = \frac{(3K + 2G)}{2(G - 3K)}$
- ☒ 3. $\gamma = \frac{(3K - 2G)}{2(G + 3K)}$
- ☐ 4. $\gamma = \frac{2(G - 3K)}{(3K + 2G)}$

QuestionID:630680198131

Status:NotAnswered

Chosen Option :--

Q.17 Based on the following two statements related to positive-displacement pumps (PDPs), select the correct answer.

Statements:

- A) At constant shaft rotation speed, a PDP produces nearly constant flow rate and virtually unlimited pressure rise, with little effect of viscosity.
- B) The flow rate of a PDP cannot be varied except by changing the displacement or the speed.

- Ans
- ☒ 1. Statement A is incorrect, but statement B is correct.
- ☒ 2. Both statements A and statement B are incorrect.
- ☒ 3. Both statements A and B are correct.
- ☒ 4. Statement A is correct, but statement B is incorrect.

QuestionID:630680198113

Status:NotAnswered

Chosen Option :--

Q.18 स्फुलिंग प्रज्वलन (spark-ignition) इंजनों में, _____ के साथ दहन के दौरान _____ मिश्रण पर अधिकतम तापमान प्राप्त होता है।

- Ans
- ☒ 1. वियोजन; तनु
- ☐ 2. बिना वियोजन; उचित तत्त्वानुपातकीय
- ☐ 3. बिना वियोजन; तनु
- ☐ 4. वियोजन; उचित तत्त्वानुपातकीय

QuestionID:630680198116

Status:Answered

ChosenOption:4

Q.19 The type of sand mould in which a synthetic liquid resin is mixed with sand and the mixture hardens at room temperature is known as _____.

- Ans
- 1. green-sand
 - ✗ 2. cold-box
 - ✗ 3. hot-box
 - ✓ 4. no-bake

QuestionID:630680198123
Status:Answered
ChosenOption:1

Q.20 As the fuel-air mixture becomes richer, the power output of an IC engine _____.

- Ans
- ✓ 1. first increases and then decreases
 - ✗ 2. first decreases and then increases
 - ✗ 3. keeps on decreasing
 - ✗ 4. keeps on increasing

QuestionID:630680198117
Status:Answered
ChosenOption:4

Q.21 _____ is an example of the **third inversion** of a double slider-crank chain mechanism.

- Ans
- 1. Rotary internal combustion engine
 - ✗ 2. Crank and slotted lever mechanism
 - ✗ 3. Whitworth quick-return motion mechanism
 - ✓ 4. Oldham's coupling

QuestionID:630680198139
Status:NotAnswered
Chosen Option :--

Q.22 Which of the following is NOT a correct expression for modular ratio of composite bars (where E, σ , ϵ , P and A are Young's modulus, stress, strain, load and area of cross-section, respectively, whereas subscripts 1 and 2 represent values for first and second bar, respectively)?

Ans

☒ 1. $\frac{P_1 \cdot A_2}{P_2 \cdot A_1}$

☒ 2. $\frac{\epsilon_1}{\epsilon_2}$

☒ 3. $\frac{\sigma_1}{\sigma_2}$

☒ 4. $\frac{E_1}{E_2}$

QuestionID:630680198130

Status:NotAnswered

Chosen Option :--

Q.23 The coefficient of steadiness of a flywheel is defined as _____.

Ans

☒ 1. the ratio of the mean speed to the minimum speed

☒ 2. the ratio of the mean speed to the maximum speed

☒ 3.

the ratio of the mean speed to the maximum fluctuation of speed

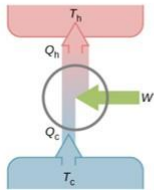
☒ 4. the ratio of the minimum speed to the maximum speed

QuestionID:630680198140

Status:Answered

ChosenOption:3

Q.24 The coefficient of performance (COP) relation for reversible refrigerator, operating between temperatures T_c and T_h as shown in the given figure, is:



Ans

✗1. $COP = \frac{1}{(T_c/T_h) - 1}$

✓2. $COP = \frac{1}{(T_h/T_c) - 1}$

✗3. $COP = \frac{1}{1 - (T_h/T_c)}$

✗4. $COP = \frac{1}{1 - (T_c/T_h)}$

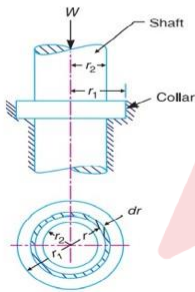
QuestionID:630680198115

Status:Answered

ChosenOption:4

Q.25 When the wear is uniform over the flat single collar bearing surface, as shown in the given figure, the total frictional torque developed is _____.

(Where W is the load transmitted over the bearing area, r_1 is the external radius of the collar, r_2 is the internal radius of the collar, μ is the coefficient of friction)



Ans

✗1. $\frac{2}{3} \mu \cdot W (r_1 - r_2)$

2. $\frac{1}{2} \mu \cdot W (r_1 + r_2)$

3. $\frac{2}{3} \mu \cdot W (r_1 + r_2)$

4. $\frac{1}{2} \mu \cdot W (r_1 - r_2)$

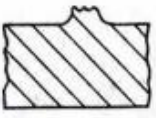

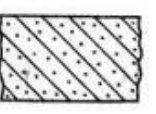

QuestionID:630680198141

Status:Answered

ChosenOption:4

Q.26 Penetration, which is a casting defect, is best represented by which of the following figures?

Ans

- ☒ 1. 
- ☒ 2. 
- ☒ 3. 
- ☒ 4. 

QuestionID:630680198125
Status:Answered
ChosenOption:2

Q.27 _____ is an example of the first inversion of a double slider-crank chain mechanism.

- Ans
- ☒ 1. Whitworth quick-return motion mechanism
 - ☒ 2. Crank and slotted lever mechanism
 - ☒ 3. Rotary internal combustion engine
 - ☒ 4. Elliptical Trammel

QuestionID:630680198145
Status:NotAnswered
Chosen Option :--

Q.28 _____ is a fusion-welding process.

- Ans
- ☒ 1. Ultrasonic welding
 - ☒ 2. Oxyfuel-gas welding
 - ☒ 3. Friction welding
 - ☒ 4. Soldering

QuestionID:630680198126
Status:Answered
ChosenOption:3

Q.29 Based on the following two statements on the hydraulic grade line (HGL), select the correct answer.

Statements:

- A) The HGL is the energy grade line (EGL) plus the velocity head $[V^2/(2g)]$.
 B) The HGL is the height to which liquid would rise in a piezometer tube attached to the flow.

- Ans ☒ 1. Both statements A and statement B are incorrect.
☒ 2. Both statements A and B are correct.
☒ 3. Statement A is incorrect, but statement B is correct.
☒ 4. Statement A is correct, but statement B is incorrect.

QuestionID:630680198110

Status:Answered

ChosenOption:2

Q.30 Euler crippling load formula for a column with both ends fixed is _____.

(Where E, I and L_e are Young's modulus, moment of inertia and equivalent length, respectively)

- Ans ☒ 1. $\frac{\pi^2 \cdot E \cdot I}{4L_e^2}$
☒ 2. $\frac{4\pi^2 \cdot E \cdot I}{L_e^2}$
☒ 3. $\frac{\pi^2 \cdot E \cdot I}{L_e^2}$
☒ 4. $\frac{2\pi^2 \cdot E \cdot I}{L_e^2}$

QuestionID:630680198136

Status:NotAnswered

Chosen Option :--

Q.31 The temperature (T) given by perfect gas temperature scale, based on the temperature of a gas at constant volume, is _____.

(Where P and V are pressure and volume at temperature T, and P_{tp} and V_{tp} are pressure and volume at triple point of water)

Ans

☒ 1. $T = 273.16 \left(\frac{V}{V_{tp}} \right)$

☒ 2. $T = 273.16 \left(\frac{P}{P_{tp}} \right)$

☒ 3. $T = 273.16 \left(\frac{P}{P_{tp}} \right)^2$

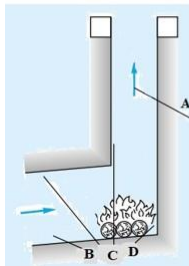
☒ 4. $T = 273.16 \left(\frac{V}{V_{tp}} \right)^2$

QuestionID:630680198114

Status:NotAnswered

Chosen Option :--

Q.32 In the fire chimney shown in the given figure, Bernoulli's equation is valid at which region (represented by points A, B, C and D)?



Ans

☒ 1. B

☒ 2. C

☒ 3. A

☒ 4. D

QuestionID:630680198106

Status:Answered

ChosenOption:3

Q.33 Which of the following pumps comes under the category of dynamic pumps?

Ans

☒ 1. Axial flow

☒ 2. Gear

☒ 3. Screw

☒ 4. Sliding vane

QuestionID:630680198112

Status:Answered

ChosenOption:4

Q.34 The velocity ratio of driven (N_2) to driver (N_1) belt considering creep effect is _____.

(Where σ_1 and σ_2 are stress in the belt on the tight and slack side, respectively, E is Young's modulus for the material of the belt, and d_1 and d_2 are diameters of the driver and the follower, respectively)

Ans

✗1. $\frac{N_2}{N_1} = \frac{d_1}{d_2} \cdot \frac{(E - \sqrt{\sigma_2})}{(E - \sqrt{\sigma_1})}$

✗2. $\frac{N_2}{N_1} = \frac{d_2}{d_1} \cdot \frac{(E + \sqrt{\sigma_1})}{(E + \sqrt{\sigma_2})}$

✗3. $\frac{N_2}{N_1} = \frac{d_2}{d_1} \cdot \frac{(E - \sqrt{\sigma_1})}{(E - \sqrt{\sigma_2})}$

✓4. $\frac{N_2}{N_1} = \frac{d_1}{d_2} \cdot \frac{(E + \sqrt{\sigma_2})}{(E + \sqrt{\sigma_1})}$

QuestionID:630680198143

Status:NotAnswered

Chosen Option :--

Q.35 Based on the following two statements on laminar and turbulent flows, select the correct answer.

Statements:

A) In a laminar flow, the fluid particles move along smooth paths in a predictable manner.

B) In a viscous turbulent flow, the motion of an individual fluid particle is not predictable.

Ans

1. Statement A is correct, but statement B is incorrect.

✗2. Statement A is incorrect, but statement B is correct.

✓3. Both statements A and B are correct.

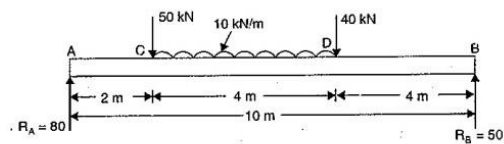
✗4. Both statements A and statement B are incorrect.

QuestionID:630680198107

Status:Answered

ChosenOption:3

Q.36 The loading of a simply supported beam is shown in the given figure. Read the statements that follow and select the correct answer.



Statements:

- A) There is abrupt change of shear force from positive to negative value at a point lying between points C and D.
B) Maximum value of bending moment is at point D.

- Ans 1. Statement A is incorrect, but statement B is correct.
2. Statement A is correct, but statement B is incorrect.
3. Both statements A and statement B are incorrect.
4. Both statements A and B are correct.

QuestionID:630680198134

Status:NotAnswered

Chosen Option :--

Q.37 Based on the following two statements on friction factor in pipe flows, select the correct answer.

Statements:

- A) In case of a laminar fully developed flow through pipes, the friction factor depends on the Reynolds number and pipe roughness.
B) The friction factor at a given the Reynolds number, in the turbulent region, depends on the relative roughness (ratio of average roughness to the diameter of the pipe) rather than absolute roughness.

- Ans 1. Statement A is correct, but statement B is incorrect.
2. Statement A is incorrect, but statement B is correct.
3. Both statements A and statement B are incorrect.
4. Both statements A and B are correct.

QuestionID:630680198111

Status:Answered

ChosenOption:4

Q.38 The entropy change (ΔS) for irreversible process is equal to _____.

(Where T is the temperature and Q is the heat transfer)

Ans

1. $\Delta S \geq \frac{\delta Q}{T}$

2. $\Delta S = \frac{\delta Q}{T}$

3. $\Delta S > \frac{\delta Q}{T}$

4. $\Delta S \leq \frac{\delta Q}{T}$

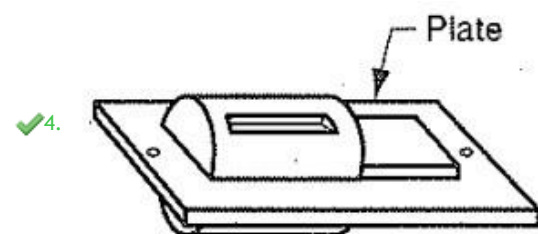
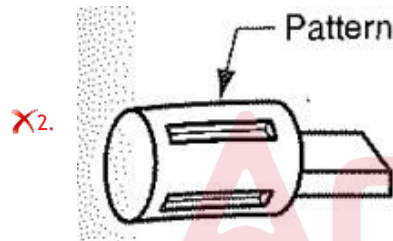
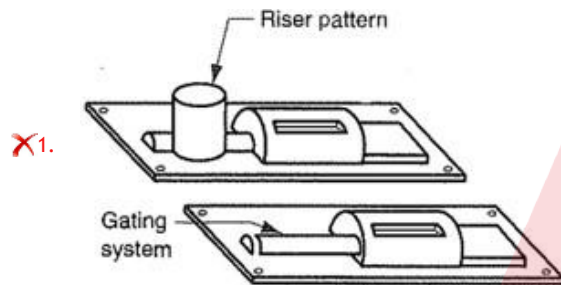
QuestionID:630680198118

Status:Answered

ChosenOption:4

Q.39 Which of the following sand-casting patterns represents the match-plate pattern?

Ans



QuestionID:630680198122

Status:Answered

ChosenOption:1

Q.40 The equation of continuity for a compressible fluid flow in a rectangular cartesian coordinate system is _____.

(Where u, v, w are the velocities in x, y, z directions, respectively, ρ is density and t is time)

Ans

☒ 1. $\frac{\partial \rho}{\partial t} + \frac{\partial u}{\partial t} + \frac{\partial v}{\partial t} + \frac{\partial w}{\partial t} = 0$

☒ 2. $\frac{\partial(\rho u)}{\partial t} + \frac{\partial(\rho v)}{\partial t} + \frac{\partial(\rho w)}{\partial t} = 0$

☒ 3. $\frac{\partial \rho}{\partial t} + \frac{\partial(\rho u)}{\partial t} + \frac{\partial(\rho v)}{\partial t} + \frac{\partial(\rho w)}{\partial t} = 0$

☒ 4. $\frac{\partial u}{\partial t} + \frac{\partial v}{\partial t} + \frac{\partial w}{\partial t} = 0$

QuestionID:630680198109

Status: Answered

ChosenOption:3

Section: Reasoning

Q.1 If '-' means 'division', 'x' means 'addition', '+' means 'multiplication' and '-' means 'subtraction', what will be the value of the following expression?

$$[(15+7) \times (4 \times 2)] - (1 \div 2)$$

Ans ☒ 1.14

☒ 2.8

☒ 3.6

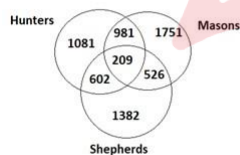
☒ 4.2

QuestionID: 630680198155

Status: Answered

ChosenOption: 1

Q.2 Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the numbers of persons in a small village with different professions.



What is the ratio of the number of shepherds who are masons but not hunters to the number of shepherds who are hunters but not masons?

Ans ☒ 1.209:526

☒ 2.735:526

☒ 3.1382:602

☒ 4.526:602

QuestionID: 630680198147

Status: Answered

ChosenOption: 4

Q.3 Select the number from among the given options that can replace the question mark (?) in the following series.

42, 46, 62, 98, 162, ?

Ans ☒ 1. 250

☒ 2. 280

☒ 3. 262

☒ 4. 260

QuestionID: 630680198153

Status: Answered

ChosenOption: 3

Q.4 Select correct combination of mathematical signs that can sequentially replace the # signs and balance the given equation.

15 # 8 # 21 # 3 # 5 # 2 # 4

Ans ☒ 1. -, +, x, =, ÷, +

☒ 2. -, +, ÷, =, x, +

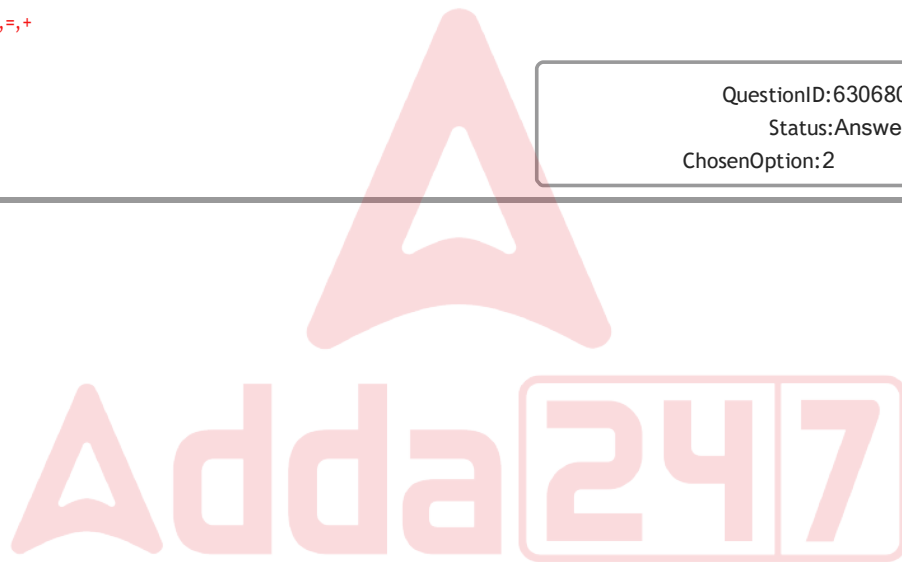
☒ 3. -, +, ÷, x, =, +

☒ 4. +, -, ÷, x, =, +

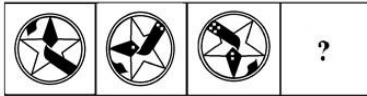
QuestionID: 630680198154

Status: Answered

ChosenOption: 2



Q.5 Select the figure from among the given options that can replace the question mark (?) in the following series.



Ans

X1.



X2.



X3.



✓4.



QuestionID:630680198151

Status:Answered

ChosenOption:4

Q.6 Eight dwarfs, P, O, A, B, C, D, E and F, are sitting around a square table, facing the centre of the table. Four of them are sitting at the corners, while four are sitting at the exact centre of the sides. E is exactly between B and O. A is second to the right of E. F and O are diagonally opposite to each other. B and C are diagonally opposite to each other. F is at the immediate left of D. B, at a corner, is third to the left of D. Who is sitting at the immediate left of O?

Ans X1.C

X2.D

X3.E

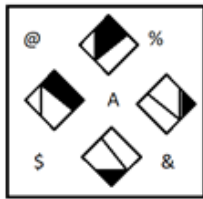
✓4.P

QuestionID:630680198146

Status:Answered

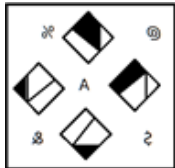
ChosenOption:4

Q.7 Select the correct water image of the given figure.

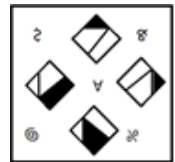


Ans

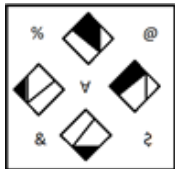
✗1.



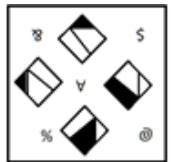
✓2.



✗3.



✗4.



QuestionID:630680198152
Status:Answered
ChosenOption:2

Q.8 In a certain code language, 'EVERY' is coded as 'CJWFW' and 'ABOUT' is coded as 'HGMZA'. How will 'OTHER' be coded in that language?

Ans ✗1. JWTIN

✗2. JW SHN

✓3. JWTHM

✗4. JWUHM

QuestionID:630680198148
Status:NotAnswered
Chosen Option :--

Q.9 Select the option that is related to the third term in the same way as the second term is related to the first term.
(The words must be considered as meaningful English words and must not be related to each other based on the number of letters/number of consonants/vowels in the word.)

MECHANIC: GARAGE:: LAWYER :?

- Ans ☒ 1. COURT
☒ 2. LAW
☒ 3. JUDGE
☒ 4. UNIVERSITY

QuestionID:630680198150
 Status:Answered
 ChosenOption:1

Q.10 If

'A@B' means 'A is the wife of B', 'A\$B'm
 eans 'A is the mother of B',
 'A&B' means 'A is the mother of B's mother', 'A#B'
 means 'A is the son of B' and
 'A^B' means 'A is the brother of B's father',
 then how is P related to T in the following expression? P^Q#R
 @S#T

- Ans ☒ 1. Brother
☒ 2. Son'sson
☒ 3. Sister'sson
☒ 4. Son

QuestionID:630680198149
 Status:Answered
 ChosenOption:2

Section: Quantitative Aptitude

Q.1 Ajay can do a certain work in 52 days. Bharat is 30% more efficient than Ajay. They work together for 13 days. How many days will Chetan alone take to complete the remaining work, if Chetan is 8% more efficient than Ajay?

- Ans ☒ 1. $20\frac{25}{54}$ days
☒ 2. $21\frac{29}{54}$ days
☒ 3. $19\frac{31}{54}$ days
☒ 4. $22\frac{19}{54}$ days

QuestionID:630680198163
 Status:Not Answered
 Chosen Option :--

Q.2 The area (in square units) of the triangle formed by the vertices (3,4), (5,6) and (7,3) is:

- Ans
- ☒ 1.9
 - ☒ 2.8
 - ☒ 3.5
 - ☒ 4.3

QuestionID:630680198164
Status:NotAnswered
Chosen Option :--

Q.3 Ketan travels a certain distance at his own speed, but when he reduces his speed by 8km/h, his time duration for the journey increases by 11 hours, while if he increases his speed by 4 km/h from his original speed, he takes 4 hours less than the original time taken. What is the distance travelled by him?

- Ans
- ☒ 1.1760 km
 - ☒ 2.1650 km
 - ☒ 3.1700 km
 - ☒ 4.1600 km

QuestionID:630680198162
Status:NotAnswered
Chosen Option :--

Q.4 Last year, Arjun's salary was ₹65,400 and this year his salary is ₹71,286. What is the percentage increase in Arjun's salary?

- Ans
- ☒ 1.9.0%
 - ☒ 2.8.5%
 - ☒ 3.9.5%
 - ☒ 4.8.0%

QuestionID:630680198160
Status:Answered
ChosenOption:1

Q.5 If the average of $x - 1$, $2x + 1$, $x + 3$, $3x + 2$ and x is 9, then the value of x is:

- Ans
- ☒ 1.8
 - ☒ 2.7
 - ☒ 3.6
 - ☒ 4.5

QuestionID:630680198158
Status:Answered
ChosenOption:4

Q.6 The number of lead balls, each of 0.4cm radius, that can be made from a sphere whose surface area is $2304\pi \text{ cm}^2$ is:

- Ans
- ✓1. 2,16,000
 - ✗2. 2,56,000
 - ✗3. 2,89,000
 - ✗4. 2,25,000

QuestionID:630680198165
Status:NotAnswered
Chosen Option :--

Q.7 If $7^x \times 3^{43} \times 147^{12} \times 343^5 = 21^{55}$, then the value of x is:

- Ans
- ✗1. 18
 - ✗2. 15
 - ✗3. 17
 - ✓4. 16

QuestionID:630680198156
Status:Answered
ChosenOption:4

Q.8 In one-day international world cup cricket tournament, six bowlers have taken 15 wickets each, eight bowlers have taken 18 wickets each, ten bowlers have taken 22 wickets each, fifteen bowlers have taken 26 wickets each, and seven bowlers have taken 30 wickets each. The mean number of wickets taken by the bowlers is: (correct to three decimal places)

- Ans
- ✗1. 24.025
 - ✓2. 22.913
 - ✗3. 23.123
 - ✗4. 25.021

QuestionID:630680198159
Status:Answered
ChosenOption:2

Q.9 Sourya bought 3600 eggs at ₹60 a dozen. At what price per hundred must he sell the eggs so as to earn a profit of 12.5%?

- Ans
- ✓1. ₹562.50
 - ✗2. ₹562.25
 - ✗3. ₹562.75
 - ✗4. ₹562.10

QuestionID:630680198161
Status:Answered
ChosenOption:1

Q.10 The value of $0.2\bar{8} + 0.1\bar{5} - 0.2\bar{3}$ is:

- Ans
- ☒ 1. $\frac{13}{90}$
 - ☒ 2. $\frac{17}{90}$
 - ☒ 3. $\frac{19}{90}$
 - ☒ 4. $\frac{23}{90}$

QuestionID:630680198157
Status:NotAnswered
Chosen Option :--

Section :GeneralAwareness

Q.1 Public sector bank, Punjab National Bank (PNB) signed a memorandum of understanding (MoU) with the _____ under its flagship scheme, PNB Rakshak Plus Scheme in July 2022.

- Ans
- ☒ 1. Indian Coast Guard
 - ☒ 2. Indian Army
 - ☒ 3. Indian Air Force
 - ☒ 4. Indian Navy

QuestionID:630680198169
Status:Answered
ChosenOption:4

Q.2 In a human body, most of the DNA is located in the cell nucleus but a small amount of DNA can also be found in the:

- Ans
- ☒ 1. lysosome
 - ☒ 2. ribosome
 - ☒ 3. cell membrane
 - ☒ 4. mitochondria

QuestionID:630680198172
Status:Answered
ChosenOption:4

Q.3 As of July 2022, the microfinance loan is defined as a collateral-free loan given to a household having annual household income up to:

- Ans
- ☒ 1. ₹1,00,000
 - ☒ 2. ₹2,00,000
 - ☒ 3. ₹4,00,000
 - ☒ 4. ₹3,00,000

QuestionID:630680198170
Status:NotAnswered
Chosen Option :--

Q.4 Which Article of the Indian Constitution relates to the representation of the Anglo-Indian community in the Legislative Assemblies of the states?

Ans ☒ 1. Article 324

☒ 2. Article 311

☒ 3. Article 319

☒ 4. Article 333

QuestionID:630680198174

Status: Answered

ChosenOption:4

Q.5 What is the supercomputing capacity of the supercomputer, PARAM Gangade developed by the Centre for Development of Advanced Computing (C-DAC)?

Ans ☒ 1. 1.66 petaflops

☒ 2. 2.89 petaflops

☒ 3. 0.46 petaflops

☒ 4. 3.94 petaflops

QuestionID:630680198166

Status: Not Answered

Chosen Option :--

Q.6 The Hindustan Socialist Republican Association (HSRA) in 1928 was later reorganised and established as the Hindustan Socialist Republican Army, in:

Ans ☒ 1. Lucknow

☒ 2. Delhi

☒ 3. Calcutta

☒ 4. Poona

QuestionID:630680198167

Status: Answered

ChosenOption:3

Q.7 By which constitutional amendment does the Constitution of India provide the right to education for the age of six to fourteen years?

Ans ☒ 1. Constitution (Eighty-sixth Amendment) Act, 2002

☒ 2. Constitution (Twenty-third Amendment) Act, 1969

☒ 3. Constitution (Seventy-second Amendment) Act, 1992

☒ 4. Constitution (Eighty-fourth Amendment) Act, 2001

QuestionID:630680198173

Status: Answered

ChosenOption:1

Q.8 Maya Devi Temple which is also known as the birth place of Gautam Buddha is located at: Ans ✓

1. Lumbini

✗ 2. Dharamsala

✗ 3. Rajgir

✗ 4. Sarnath

QuestionID: 630680198168

Status: Answered

ChosenOption: 1

Q.9 उणकटबंधीयपणपातीवनकेवषयमननलखतमसेकौनसाकथनगलतहै? Ans

✓ 1. देवदार इस जंगल का सबसे मुख्य ज्ञात है।

✗ 2. इन वन में महवृक्षों का बाँस, साल, शीशम, चंदन, खैर, कुसुम और अजुन है।

✗ 3. ये भारत के सबसे पक्के से फैले हुए हैं।

✗ 4. इन्हें मानसूनी वन भी कहा जाता है।

QuestionID: 630680198171

Status: Answered

ChosenOption: 1

Q.10 How many gold medals has India won at the U20 Asian Wrestling Championships in Manama, Bahrain in July 2022?

Ans ✗ 1.5

✗ 2.3

✓ 3.4

✗ 4.6

QuestionID: 630680198175

Status: Answered

ChosenOption: 1

Section: English Language

Q.1 Sentences of a paragraph are given below in jumbled order. Arrange the sentences in the correct order to form a meaningful and coherent paragraph.

A. Over the last five years, I have managed to acquire quite a collection.

B. I work in a bank and spend at least half my salary on these.

C. Old books, especially, fascinate me.

D. I am what is usually described as a bookworm. Ans

✓ 1. DCBA

✗ 2. DABC

✗ 3. BCAD

✗ 4. ACDB

QuestionID: 630680198182

Status: Answered

ChosenOption: 2

Q.2 Part of the following sentence have been given as options. Select the option that contains an error in spelling. If you don't find any error, mark 'No error' as your answer.

He stood in the doorway making occasional efforts to whistle through parted lips.

- Ans ☒ 1. No error
- ☒ 2. to whistle through parted lips
- ☒ 3. making occasional efforts
- ☒ 4. He stood in the doorway

QuestionID:630680198179
Status:Answered
ChosenOption:4

Q.3 Select the most appropriate synonym of the given word to fill in the blank.

Apparent
It was _____ that he hadn't slept in the bed at all.

- Ans ☒ 1. vague
- ☒ 2. obvious
- ☒ 3. deceptive
- ☒ 4. actual

QuestionID:630680198178
Status:Answered
ChosenOption:2

Q.4 Select the most appropriate option to fill in the blank.

I knew nothing beyond what he _____ me about himself.

- Ans ☒ 1. is telling
- ☒ 2. has told
- ☒ 3. tells
- ☒ 4. had told

QuestionID:630680198176
Status:Answered
ChosenOption:4

Q.5 Select the most appropriate meaning of the given idiom.

Burn the candle at both ends

- Ans ☒ 1. To earn a living for the family
- ☒ 2. To overwork until exhausted
- ☒ 3. To work through the night
- ☒ 4. To annoy someone a lot

QuestionID:630680198181
Status:Answered
ChosenOption:2

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

I got _____ the bed and covered myself _____ a blanket.

Ans ☒ 1. on; through

☒ 2. in; by

☒ 3. at; from

☒ 4. into; with

QuestionID:630680198177

Status: Answered

ChosenOption: 4

Q.7 Select the most appropriate meaning of the given idiom.

Bury the hatchet

Ans ☒ 1. To commit to an action

☒ 2. To ignore danger

☒ 3. To leave someone alone

☒ 4. To make peace

QuestionID:630680198180

Status: Answered

ChosenOption: 1

Comprehension:

Read the given passage and answer the questions that follow.

Hundreds more people were evacuated from their homes as wildfires blistered land in France, Spain and Portugal on Friday, while officials in Europe issued health warnings for the heat wave in the coming days.

More than 1,000 firefighters, supported by water-bomber aircraft, have battled since Tuesday to control two blazes in southwestern France that have been fanned by scorching heat, tinder-box conditions and strong winds. While temperatures dipped a little in Portugal, they were still expected to top 40 degrees Celsius (104 Fahrenheit) in some places, with five districts on red alert and more than 1,000 firefighters tackling 17 wildfires, authorities said.

In Spain, a new wildfire broke out in the south of the country after blazes in the west in the past week. More than 400 people were evacuated from the hills of Mijas, a town popular with northern European tourists in the province of Malaga.

Meanwhile, the worst drought in over 70 years reduced Italy's longest river, the Po, to little more than a trickle in places, with temperatures expected to rise next week. Italy has declared a state of emergency along the Po, which supports about a third of the country's agricultural production.

SubQuestion No : 8

Q.8 In which country has the temperature dropped a little at present? Ans

☒ 1. Spain

☒ 2. Portugal

☒ 3. France

☒ 4. Italy

QuestionID:630680198186

Status: Answered


ChosenOption: 2

Comprehension:

Read the given passage and answer the questions that follow.

Hundreds more people were evacuated from their homes as wildfires blistered land in France, Spain and Portugal on Friday, while officials in Europe issued health warnings for the heatwave in the coming days. More than 1,000 firefighters, supported by water-bomber aircraft, have battled since Tuesday to control two blazes in southwestern France that have been fanned by scorching heat, tinder-box conditions and strong winds. While temperatures dipped a little in Portugal, they were still expected to top 40 degrees Celsius (104 Fahrenheit) in some places, with five districts on red alert and more than 1,000 firefighters tackling 17 wildfires, authorities said. In Spain, a new wildfire broke out in the south of the country after blazes in the west in the past week. More than 400 people were evacuated from the hills of Mijas, a town popular with northern European tourists in the province of Malaga. Meanwhile, the worst drought in over 70 years reduced Italy's longest river, the Po, to little more than a trickle in places, with temperatures expected to rise next week. Italy has declared a state of emergency along the Po, which supports about a third of the country's agricultural production.

SubQuestion No : 9

Q.9 The passage mentions several concerns. Which of the following is NOT a concern here? Ans 

1. Health warnings issued for the people of Europe.

 2. Agricultural production in Europe.

 3. Wildfires in several countries of Europe.

 4. Heatwaves scorching Europe.

Question ID: 630680198184

Status: Answered

Chosen Option: 2

Comprehension:

Read the given passage and answer the questions that follow.

Hundreds more people were evacuated from their homes as wildfires blistered land in France, Spain and Portugal on Friday, while officials in Europe issued health warnings for the heatwave in the coming days. More than 1,000 firefighters, supported by water-bomber aircraft, have battled since Tuesday to control two blazes in southwestern France that have been fanned by scorching heat, tinder-box conditions and strong winds. While temperatures dipped a little in Portugal, they were still expected to top 40 degrees Celsius (104 Fahrenheit) in some places, with five districts on red alert and more than 1,000 firefighters tackling 17 wildfires, authorities said. In Spain, a new wildfire broke out in the south of the country after blazes in the west in the past week. More than 400 people were evacuated from the hills of Mijas, a town popular with northern European tourists in the province of Malaga. Meanwhile, the worst drought in over 70 years reduced Italy's longest river, the Po, to little more than a trickle in places, with temperatures expected to rise next week. Italy has declared a state of emergency along the Po, which supports about a third of the country's agricultural production.

SubQuestion No: 10

Q.10 Read the given sentences and select the correct option.

A. Wildfires are breaking out in several countries of Europe.

B. Europe is hit by an unprecedented heatwave. Ans

 1. Statement A is true but statement B is false

 2. Both statements A and B are true but B does not explain the reason for A.

 3. Both statements A and B are true and B explains the reason for A.

 4. Statement A is false but statement B is true

Question ID: 630680198185

Status: Answered

Chosen Option: 3