



**Delhi Development Authority**  
**(Recruitment Cell)**  
Advertisement No. 03/2022/Rectt.Cell./Pers./DDA

|                  |                                            |
|------------------|--------------------------------------------|
| Participant ID   |                                            |
| Participant Name |                                            |
| Test Center Name | iON Digital Zone iDZ 1 GT Karnal Road      |
| Test Date        | 03/04/2023                                 |
| Test Time        | 12:30 PM - 2:30 PM                         |
| Subject          | Junior Engineer (Electrical or Mechanical) |

## Section : Domain Questions (Electrical)

Q.1 Arrange the following materials in the ascending order of their resistivity:

Carbon, glass, copper

- Ans
- 1. Carbon, glass, copper
  - 2. Copper, carbon, glass
  - 3. Copper, glass, carbon
  - 4. Glass, copper, carbon

Question ID : 630680197938  
Status : Answered  
Chosen Option : 2

Q.2 An EMF of 0.25 V is induced in a coil when the flux changes at a rate of 1 mWb/s. Calculate the number of turns in the coil.

- Ans
- 1. 125
  - 2. 25
  - 3. 50
  - 4. 250

Question ID : 630680197947  
Status : Answered  
Chosen Option : 4

Q.3 An 8-pole lap-connected DC generator has 480 conductors, and it generates 500 V. If the flux per pole is 50 mWb, find the speed of the generator.

- Ans
- 1. 1500 rpm
  - 2. 1000 rpm
  - 3. 750 rpm
  - 4. 1250 rpm

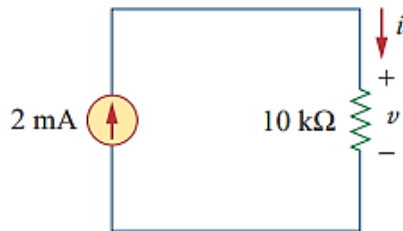
Question ID : 630680197972  
Status : Answered  
Chosen Option : 4

Q.4 Which of the following laws states that the voltage across a resistor is directly proportional to the current 'i' flowing through the resistor?

- Ans
- 1. Kirchoff's law
  - 2. Ohm's law
  - 3. Lenz's law
  - 4. Faraday's law

Question ID : 630680197935  
Status : Answered  
Chosen Option : 2

Q.5 For the following circuit, find the power dissipated in the resistor.



- Ans
- 1. 4 W
  - 2. 400 mW
  - 3. 4 mW
  - 4. 40 mW

Question ID : 630680197936  
Status : Answered  
Chosen Option : 4

Q.6 In split-phase induction motors, the starting current is \_\_\_\_\_ the full load current.

- Ans
- 1. 3 to 4 times
  - 2. 8 to 10 times
  - 3. 6 to 8 times
  - 4. 10 to 12 times

Question ID : 630680197967  
Status : Not Answered  
Chosen Option : --

**Q.7** In a 20-pole synchronous motor, if the rotor is retarded by  $0.5^\circ$  (mechanical) from its synchronous position, then compute the rotor displacement in electrical degrees.

- Ans**
- 1.  $15^\circ$
  - 2.  $2.5^\circ$
  - 3.  $5^\circ$
  - 4.  $10^\circ$

Question ID : 630680197971  
Status : Answered  
Chosen Option : 3

**Q.8** The underground distribution system is advantageous over the overhead distribution system in terms of \_\_\_\_\_.

- Ans**
- 1. flexibility
  - 2. initial cost
  - 3. current-carrying capacity
  - 4. public safety

Question ID : 630680197961  
Status : Answered  
Chosen Option : 3

**Q.9** In a DC generator, the field resistance line is the plot of the \_\_\_\_\_ versus the \_\_\_\_\_.

- Ans**
- 1. resistance  $R_a$  in armature circuit, armature current  $I_a$
  - 2. terminal voltage, armature current
  - 3. resistance  $R_f$  in field circuit, field current  $I_f$
  - 4. voltage  $I_f R_f$  across field circuit, field current  $I_f$

Question ID : 630680197974  
Status : Not Answered  
Chosen Option : --

**Q.10** A coil of 8 H is tightly coupled with another coil of 18 H. Find the mutual inductance between the two coils.

- Ans**
- 1. 10 H
  - 2. 18 H
  - 3. 8 H
  - 4. 12 H

Question ID : 630680197948  
Status : Answered  
Chosen Option : 4

Q.11 Among the generalized circuit constants of transmission line, which constants are dimensionless?

- Ans
- 1. Constant A and Constant B
  - 2. Constant D and Constant A
  - 3. Constant C and Constant D
  - 4. Constant B and Constant C

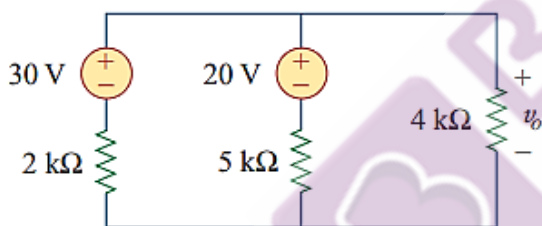
Question ID : 630680197954  
Status : Not Answered  
Chosen Option : --

Q.12 \_\_\_\_\_ is the non-SI unit of magnetic flux.

- Ans
- 1. Henry
  - 2. Tesla
  - 3. Weber
  - 4. Maxwell

Question ID : 630680197946  
Status : Answered  
Chosen Option : 2

Q.13 Find voltage ' $V_o$ ' in the following circuit.



- Ans
- 1. 15 V
  - 2. 20 V
  - 3. 10 V
  - 4. 30 V

Question ID : 630680197945  
Status : Not Answered  
Chosen Option : --

Q.14 Generally, motor life doubles for each \_\_\_\_\_ reduction in the operating temperature.

- Ans
- 1. 40°C
  - 2. 10°C
  - 3. 20°C
  - 4. 30°C

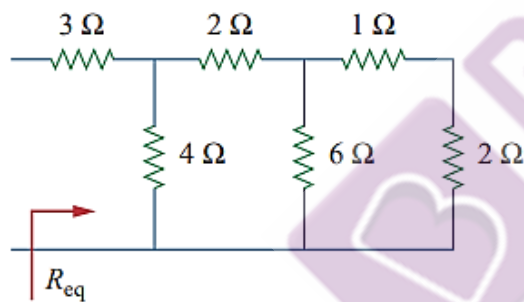
Question ID : 630680197963  
Status : Not Answered  
Chosen Option : --

Q.15 The shunt resistance used to extend the range in PMMC is usually made up of \_\_\_\_\_.

- Ans
- 1. aluminium
  - 2. platinum
  - 3. carbon
  - 4. manganin

Question ID : 630680197953  
Status : Not Answered  
Chosen Option : --

Q.16 Find  $R_{eq}$  in the following circuit.



- Ans
- 1. 3 Ω
  - 2. 5 Ω
  - 3. 7 Ω
  - 4. 18 Ω

Question ID : 630680197943  
Status : Answered  
Chosen Option : 2

Q.17 Which of the following is NOT an effect of hunting in synchronous motors?

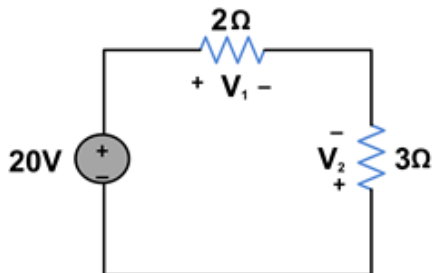
- Ans
- 1. Increase in machine losses
  - 2. Loss of synchronism
  - 3. Increase in the machine temperature
  - 4. Reduction in mechanical stress on the rotor shaft

Question ID : 630680197970

Status : Answered

Chosen Option : 3

Q.18 For the following circuit, find the voltage drop across  $2\ \Omega$ .



- Ans
- 1. 6 V
  - 2. 8 V
  - 3. 12 V
  - 4. 4 V

Question ID : 630680197941

Status : Answered

Chosen Option : 2

Q.19 \_\_\_\_\_ are the devices that are used to detect the ground fault for ungrounded A.C. systems.

- Ans
- 1. Ground detectors
  - 2. Spark detectors
  - 3. Phase detectors
  - 4. Line detectors

Question ID : 630680197962

Status : Not Answered

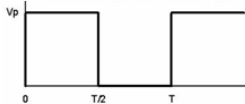
Chosen Option : --

Q.20 For which of the following conditions does an induction machine act as an electric brake?

- Ans
- 1. Slip is negative
  - 2. Slip is positive and less than 1
  - 3. Slip is positive and greater than 1
  - 4. Slip is zero

Question ID : 630680197964  
Status : Not Answered  
Chosen Option : --

Q.21 Find the average value of the square wave signal shown in the following diagram, if given that  $V_p = 100$  V.



- Ans
- 1. 50 V
  - 2. 86.6 V
  - 3. 70.7 V
  - 4. 63.7 V

Question ID : 630680197950  
Status : Not Answered  
Chosen Option : --

Q.22 A series RLC circuit has  $R = 2 \Omega$ ,  $L = 0.025$  H and  $C = 10 \mu\text{F}$ . Find the Q-factor.

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

Question ID : 630680197952  
Status : Not Answered  
Chosen Option : --

Q.23 A series RL circuit is supplied through a 100 V, 50 Hz supply. If the RMS current in the circuit is 3 A, then find the apparent power in the circuit.

- Ans
- 1. 424 VA
  - 2. 150 VA
  - 3. 212 VA
  - 4. 300 VA

Question ID : 630680197951  
Status : Not Answered  
Chosen Option : --

**Q.24** A sinusoidal voltage is expressed as  $v(t) = 120 \sin 314t$ . The peak-to-peak voltage for the same is \_\_\_\_\_.

- Ans**
- 1. 240 V
  - 2.  $120\sqrt{2}$  V
  - 3. 120 V
  - 4.  $240\sqrt{2}$  V

Question ID : 630680197949  
Status : **Not Answered**  
Chosen Option : --

**Q.25** The resistance of a metal strip having rectangular cross-section of  $2.5 \text{ cm} \times 0.05 \text{ cm}$  and resistivity of  $1.25 \times 10^{-8} \Omega \cdot \text{m}$  is  $10 \Omega$ . Find the length of the conductor.

- Ans**
- 1. 10 km
  - 2. 100 m
  - 3. 10 m
  - 4. 1 km

Question ID : 630680197939  
Status : **Answered**  
Chosen Option : 1

**Q.26** Which of the following single-phase motors is mostly used in toys?

- Ans**
- 1. Permanent-split capacitor motor
  - 2. Shaded-pole induction motor
  - 3. Capacitor-start capacitor-run motor
  - 4. Capacitor-start induction motor

Question ID : 630680197966  
Status : **Not Answered**  
Chosen Option : --

**Q.27** A three-phase induction motor is supplied through a 50 Hz supply. Find the frequency of the rotor current for 4% slip.

- Ans**
- 1. 5 Hz
  - 2. 10 Hz
  - 3. 2 Hz
  - 4. 2.5 Hz

Question ID : 630680197965  
Status : **Answered**  
Chosen Option : 4



Q.28 In a string of suspension insulators, the disc nearest to the conductor has \_\_\_\_\_ voltage across it.

- Ans
- 1. minimum
  - 2. zero
  - 3. moderate
  - 4. maximum

Question ID : 630680197959  
Status : Answered  
Chosen Option : 1

Q.29 Three resistors, each one of value  $3.3\text{ k}\Omega$ , are connected in star connection. If star to delta transformation is performed, the value of each resistor in delta connection will be \_\_\_\_\_.

- Ans
- 1.  $9.9\text{ k}\Omega$
  - 2.  $1.1\text{ k}\Omega$
  - 3.  $3.3\text{ k}\Omega$
  - 4.  $6.6\text{ k}\Omega$

Question ID : 630680197942  
Status : Answered  
Chosen Option : 1

Q.30 A voltage source of  $v = 20 \sin \pi t$  volts is connected across a  $5\ \Omega$  resistor. Find the power dissipated in the resistor.

- Ans
- 1.  $60 \sin^2 \pi t$
  - 2.  $40 \sin^2 \pi t$
  - 3.  $100 \sin^2 \pi t$
  - 4.  $80 \sin^2 \pi t$

Question ID : 630680197937  
Status : Answered  
Chosen Option : 4

Q.31 In case of S.L. type screened cables, S.L. stands for \_\_\_\_\_

- Ans
- 1. Service Lead
  - 2. Separate Lead
  - 3. Selective Lead
  - 4. Shorted Lead

Question ID : 630680197956  
Status : Not Answered  
Chosen Option : --

Q.32 With reference to corona, identify whether the following statements are true or false.

- 1) As compared to the solid conductor, the stranded conductor has more corona effect.
- 2) If the spacing between the conductors is very large, corona effect will be severe.

- Ans
- 1. 1) False, 2) True
  - 2. 1) True, 2) True
  - 3. 1) True, 2) False
  - 4. 1) False, 2) False

Question ID : 630680197960  
Status : Not Answered  
Chosen Option : --

Q.33 What will be the frequency of the generated EMF if a 12-pole alternator runs at a speed of 600 rpm?

- Ans
- 1. 30 Hz
  - 2. 25 Hz
  - 3. 60 Hz
  - 4. 50 Hz

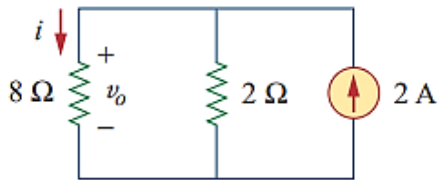
Question ID : 630680197968  
Status : Answered  
Chosen Option : 3

Q.34 In a three-phase alternator, if fundamental frequency is 50 Hz, the 3<sup>rd</sup> and the 5<sup>th</sup> harmonic frequencies will be \_\_\_\_\_ and \_\_\_\_\_, respectively.

- Ans
- 1. 300 Hz; 500 Hz
  - 2. 150 Hz; 250 Hz
  - 3. 250 Hz; 150 Hz
  - 4. 100 Hz; 200 Hz

Question ID : 630680197969  
Status : Answered  
Chosen Option : 2

Q.35 Find current 'i' in the following circuit.



- Ans
- 1. 0.8 A
  - 2. 1.0 A
  - 3. 2.0 A
  - 4. 0.4 A

Question ID : 630680197944  
Status : Answered  
Chosen Option : 4

Q.36 Which of the following methods is NOT used for calculations of medium transmission lines?

- Ans
- 1. End condenser method
  - 2. Rigorous method
  - 3. Nominal- $\pi$  method
  - 4. Nominal-T method

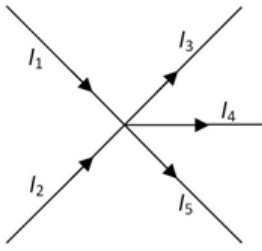
Question ID : 630680197955  
Status : Not Answered  
Chosen Option : --

Q.37 In transmission lines, the voltage regulation is negative, only if:

- Ans
- 1. Load P.F. is leading such that  $(I R \cos \Phi_R) > (I X_L \sin \Phi_R)$
  - 2. Load P.F. is lagging
  - 3. Load P.F. is unity
  - 4. Load P.F. is leading such that  $(I R \cos \Phi_R) < (I X_L \sin \Phi_R)$

Question ID : 630680197958  
Status : Answered  
Chosen Option : 4

Q.38 In the following diagram, if currents  $I_1 = I_2 = 6\text{ A}$  and  $I_3 = I_4 = I_5$ , then find  $I_3$ .



- Ans
- 1. 6 A
  - 2. 5 A
  - 3. 12 A
  - 4. 4 A

Question ID : 630680197940  
Status : Answered  
Chosen Option : 4

Q.39 Identify whether the following statements related to DC machines are true or false.

- 1) Interpoles are also called composites.
- 2) The interpole windings are connected in series with the armature.

- Ans
- 1. 1) False, 2) True
  - 2. 1) True, 2) True
  - 3. 1) False, 2) False
  - 4. 1) True, 2) False

Question ID : 630680197973  
Status : Not Answered  
Chosen Option : --

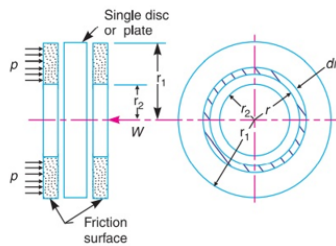
Q.40 Oil-filled cables can be used from \_\_\_\_\_ up to \_\_\_\_\_.

- Ans
- 1. 66 kV; 230 kV
  - 2. 22 kV; 33 kV
  - 3. 11 kV; 22 kV
  - 4. 33 kV; 66 kV

Question ID : 630680197957  
Status : Not Answered  
Chosen Option : --

**Q.1** When the pressure is uniformly distributed over the entire area of the friction face of a plate clutch as shown in the following figure, the total frictional torque developed is:

(W is the axial thrust,  $R = \left[ \frac{r_1^3 - r_2^3}{r_1^2 - r_2^2} \right]$  and  $\mu$  is the coefficient of friction)



- Ans**
- 1.  $\frac{3}{2} \mu WR$
  - 2.  $\frac{1}{2} \mu WR$
  - 3.  $\frac{2}{3} \mu WR$
  - 4.  $\mu WR$

Question ID : 630680198011

Status : Answered

Chosen Option : 3

**Q.2** \_\_\_\_\_ is an example of the second inversion of a double slider-crank chain mechanism.

- Ans**
- 1. Whitworth quick-return motion mechanism
  - 2. Rotary internal combustion engine
  - 3. Scotch yoke
  - 4. Crank and slotted lever quick-return motion mechanism

Question ID : 630680198008

Status : Answered

Chosen Option : 3

**Q.3** The ratio of the difference between the maximum speed and the minimum speed to the mean speed for a governor is known as \_\_\_\_\_.

- Ans**
- 1. sensitiveness of the governor
  - 2. efficiency of the governor
  - 3. effort of the governor
  - 4. power of the governor

Question ID : 630680198014

Status : Answered

Chosen Option : 1

Q.4 Identify whether the following statements about flywheel are correct or incorrect.

**Statement A:** It absorbs mechanical energy by decreasing its angular velocity.

**Statement B:** It is used to smooth out the flow of energy between a power source and its load.

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

Question ID : 630680198009  
Status : Answered  
Chosen Option : 4

Q.5 Identify whether the following statements are correct or incorrect.

**Statement A:** A reversible adiabatic process is necessarily isentropic.

**Statement B:** An isentropic process is not necessarily a reversible adiabatic process.

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

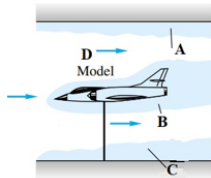
Question ID : 630680197987  
Status : Answered  
Chosen Option : 4

Q.6 \_\_\_\_\_ is the relation between Young's modulus of rigidity (E), modulus of rigidity (G) and bulk modulus of elasticity (K).

- Ans
- 1.  $\frac{1}{E} = \frac{3}{G} + \frac{1}{3K}$
  - 2.  $\frac{3}{E} = \frac{1}{G} + \frac{1}{3K}$
  - 3.  $\frac{3}{E} = \frac{1}{3G} + \frac{1}{K}$
  - 4.  $\frac{1}{E} = \frac{1}{3G} + \frac{3}{K}$

Question ID : 630680198000  
Status : Answered  
Chosen Option : 2

Q.7 In a wind-tunnel model test shown in the following figure, at which region (represented by points A, B, C and D) is Bernoulli's equation valid?



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

Question ID : 630680197977

Status : Answered

Chosen Option : 4

Q.8 Which of the following options is correct as an advantage of air-cooled IC engines?

- Ans
- 1. Air-cooled IC engines have little clearances between their various parts.
  - 2. Air-cooled IC engines create less noise.
  - 3. The volumetric efficiency is high.
  - 4. Due to small thermal losses, the specific fuel consumption is low.

Question ID : 630680197989

Status : Not Answered

Chosen Option : --

Q.9 Friction factor in circular pipes depends on the \_\_\_\_\_.

- Ans
- 1. pressure head
  - 2. length of the pipe
  - 3. Reynolds number
  - 4. datum head

Question ID : 630680197980

Status : Answered

Chosen Option : 2

**Q.10** The relation between average velocity ( $u_{avg}$ ) and maximum velocity ( $u_{max}$ ) for fully developed laminar flow in a circular pipe is given by:

**Ans**

1.  $u_{max} = \frac{1}{2} u_{avg}$

2.  $u_{max} = \frac{3}{2} u_{avg}$

3.  $u_{avg} = \frac{3}{2} u_{max}$

4.  $u_{avg} = \frac{1}{2} u_{max}$

Question ID : 630680197979

Status : Answered

Chosen Option : 4

**Q.11** For a gear, the difference between the space width and the tooth thickness along the pitch circle is known as \_\_\_\_\_.

**Ans**

1. face width

2. space width

3. working depth of teeth

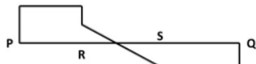
4. backlash

Question ID : 630680198013

Status : Answered

Chosen Option : 4

**Q.12** The shear force diagram of a simply supported beam is shown in the following figure. The beam is supported at P and Q. Identify whether the following statements are correct or incorrect.



**Statement A:** There is a concentrated load at S.

**Statement B:** There is a uniformly distributed load between R and S.

**Ans**

1. Both Statement A and Statement B are correct.

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

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

4. Both Statement A and Statement B are incorrect.

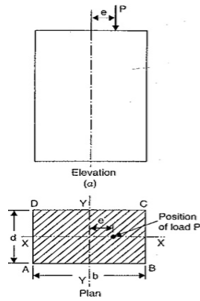
Question ID : 630680198003

Status : Answered

Chosen Option : 2



**Q.13** The ratio of the maximum stress to the minimum stress of a rectangular section subjected to an eccentric load as shown in the following figure is \_\_\_\_\_.



Ans

✗ 1.  $\frac{1 + \frac{e}{6b}}{1 - \frac{e}{6b}}$

✓ 2.  $\frac{1 + \frac{6e}{b}}{1 - \frac{6e}{b}}$

✗ 3.  $\frac{1 - \frac{e}{6b}}{1 + \frac{e}{6b}}$

✗ 4.  $\frac{1 - \frac{6e}{b}}{1 + \frac{6e}{b}}$

Question ID : 630680198004

Status : Answered

Chosen Option : 2

**Q.14** Work done by an ideal gas contained in the cylinder piston assembly, as between states 1 and 2 system undergoing a reversible adiabatic process, is \_\_\_\_\_ (where P, v are pressure and volume,  $\gamma$  represents the ratio of specific heats at constant pressure and constant volume and subscripts 1 and 2 represent the state of system).

Ans

✗ 1.  $\frac{P_2 v_2 - P_1 v_1}{\gamma - 1}$

✗ 2.  $\frac{P_2 v_2 - P_1 v_1}{(\gamma - 1)^2}$

✓ 3.  $\frac{P_1 v_1 - P_2 v_2}{\gamma - 1}$

✗ 4.  $\frac{P_1 v_1 - P_2 v_2}{(\gamma - 1)^2}$

Question ID : 630680197983

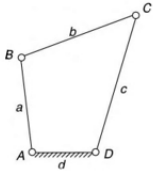
Status : Answered

Chosen Option : 3

**Q.15** Consider a four-link mechanism shown in the following figure. The following statements **A** and **B** are related to necessary condition(s) for link 'a' to be crank. Identify whether the two statements are correct or incorrect.

**Statement A:** The shortest link is 'd'.

**Statement B:** The sum of the shortest link and the longest link is less than the sum of the other two links.



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

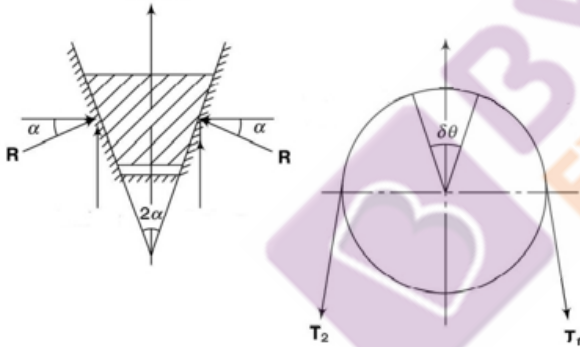
Question ID : 630680198007

Status : Answered

Chosen Option : 4

**Q.16** The ratio of tensions  $T_1$  to  $T_2$  in the V-belt shown in the following figure is:

( $\mu$  is the coefficient of friction between the belt and the pulley)



- Ans**
- 1.  $e^{\mu\theta/\sin\alpha}$
  - 2.  $\log_e \left( \frac{\sin\alpha}{\mu\theta} \right)$
  - 3.  $\log_e \left( \frac{\mu\theta}{\sin\alpha} \right)$
  - 4.  $e^{\sin\alpha/\mu\theta}$

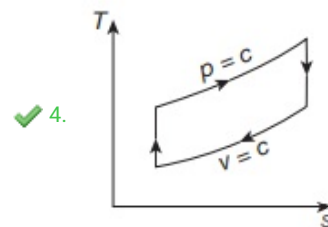
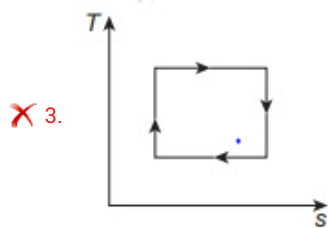
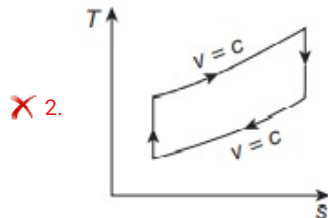
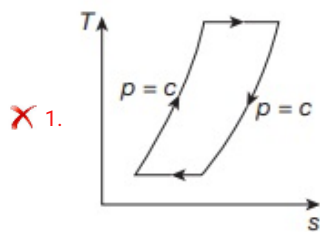
Question ID : 630680198012

Status : Answered

Chosen Option : 1

Q.17 Which of the following represents T-s diagram of a diesel cycle?

Ans



Question ID : 630680197988

Status : Answered

Chosen Option : 4

Q.18 Modulus of resilience is defined as the:

- Ans
- ✗ 1. total strain energy stored in a body
  - ✗ 2. maximum strain energy stored in a body
  - ✗ 3. capacity of a strained body to do work
  - ✓ 4. proof of resilience of a material per unit volume

Question ID : 630680198001

Status : Answered

Chosen Option : 4

Q.19 A flow can be judged by the value of the Reynolds number (Re), which is represented as:

Ans

- ✓ 1.  $Re = \frac{\text{Inertia Force}}{\text{Viscous Force}}$
- ✗ 2.  $Re = \frac{\text{Pressure Force}}{\text{Inertia Force}}$
- ✗ 3.  $Re = \frac{\text{Inertia Force}}{\text{Pressure Force}}$
- ✗ 4.  $Re = \frac{\text{Viscous Force}}{\text{Inertia Force}}$

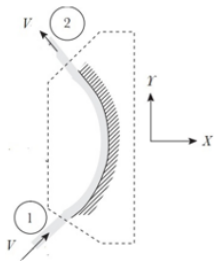
Question ID : 630680197976

Status : Answered

Chosen Option : 1

Q.20 A jet is entering and leaving a semi-circular plate tangentially. (Refer to the following figure.) The force components,  $F_x$  and  $F_y$ , exerted by the jet are:

( $\dot{m}$  is the mass flow rate,  $V$  is velocity of the jet,  $A$  is area of the plate and  $\rho$  is fluid density)



Ans

- ✗ 1.  $F_x = 0, F_y = 2\dot{m}V$
- ✗ 2.  $F_x = 0, F_y = \rho AV^2$
- ✓ 3.  $F_x = 2\dot{m}V, F_y = 0$
- ✗ 4.  $F_x = \rho AV^2, F_y = 0$

Question ID : 630680197981

Status : Answered

Chosen Option : 4

Q.21 The defect in casting in which very small holes uniformly dispersed throughout the casting are formed due to decrease in gas solubility during solidification is known as:

Ans

- ✓ 1. porosity
- ✗ 2. blister
- ✗ 3. gas holes
- ✗ 4. blow

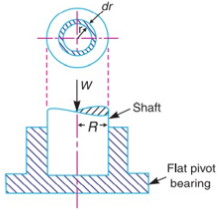
Question ID : 630680197993

Status : Answered

Chosen Option : 4

**Q.22** When the wear is uniform over the flat pivot bearing area, as shown in the following figure, the total frictional torque developed is:

(W is the load transmitted over the bearing area, R is the radius of the bearing surface and  $\mu$  is the coefficient of friction)



- Ans**
- 1.  $\mu WR$
  - 2.  $\frac{1}{2} \mu WR$
  - 3.  $\frac{2}{3} \mu WR$
  - 4.  $\frac{3}{2} \mu WR$

Question ID : 630680198010

Status : Answered

Chosen Option : 2

**Q.23** A dual cycle consists of two \_\_\_\_\_, \_\_\_\_\_ and \_\_\_\_\_ processes.

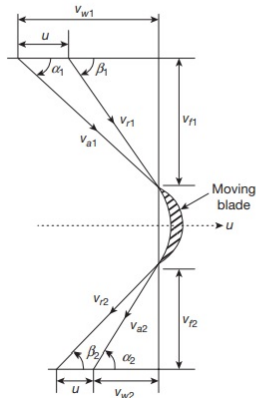
- Ans**
- 1. isentropic, isobaric heat addition, isochoric heat rejection
  - 2. adiabatic, isobaric heat addition, isochoric heat rejection
  - 3. adiabatic, isobaric heat addition, isochoric heat addition & rejection
  - 4. isentropic, isobaric heat addition, isochoric heat addition & rejection

Question ID : 630680197986

Status : Answered

Chosen Option : 4

**Q.24** For a steam turbine, if  $\alpha_1$  = angle that the absolute velocity of steam at the inlet makes with the plane of moving blades, or nozzle angle, or outlet angle of fixed blades and  $\alpha_2$  = angle that the absolute velocity of steam at the outlet makes with the plane of moving blades or inlet angle of fixed blades, then the maximum blade efficiency is equal to:



- Ans**
- ✓ 1.  $\cos^2 \alpha_1$
  - ✗ 2.  $\sin^2 \alpha_2$
  - ✗ 3.  $\sin^2 \alpha_1$
  - ✗ 4.  $\cos^2 \alpha_2$

Question ID : 630680197990  
 Status : Answered  
 Chosen Option : 1

**Q.25** Euler's crippling load for a column with one end fixed and another end hinged is \_\_\_\_\_ that of the crippling load for a column with both ends fixed.

- Ans**
- ✗ 1. two times
  - ✗ 2. the same as
  - ✗ 3. three times
  - ✓ 4. half of

Question ID : 630680198005  
 Status : Answered  
 Chosen Option : 4

**Q.26** The most commonly used ranges (in percentage) of sand, clay, water and additives in a green sand mould are \_\_\_\_\_, respectively.

- Ans**
- ✗ 1. 60–70, 20–30, 1–10 and 1–3
  - ✗ 2. 50–65, 30–40, 5–10 and 5–10
  - ✗ 3. 55–70, 20–35, 3–8 and 4–8
  - ✓ 4. 70–85, 10–20, 3–6 and 1–6

Question ID : 630680197992  
 Status : Answered  
 Chosen Option : 4

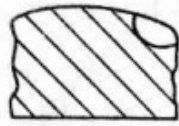
Q.27 By which of the following figures is buckle, a casting defect, best represented?

Ans

✗ 1.



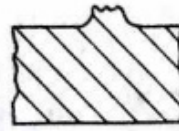
✗ 2.



✓ 3.



✗ 4.



Question ID : 630680197994

Status : Not Answered

Chosen Option : --

Q.28 \_\_\_\_\_ is the angle of twist of a circular shaft. (where T = Torque,  $\ell$  = Length of the shaft, J = Polar moment of inertia, G = Modulus of rigidity)

Ans

✗ 1.  $\frac{TJ}{G\ell}$

✗ 2.  $\frac{GJ}{T\ell}$

✓ 3.  $\frac{T\ell}{GJ}$

✗ 4.  $\frac{TG}{J\ell}$

Question ID : 630680198006

Status : Answered

Chosen Option : 3

Q.29 Arc welding is an example of \_\_\_\_\_ welding process.

Ans

✗ 1. forge

✗ 2. resistance

✓ 3. fusion

✗ 4. friction

Question ID : 630680197995

Status : Answered

Chosen Option : 3

**Q.30** In a typical sensitive drilling machine, a \_\_\_\_\_ provides the means of locating, holding and driving the cutting tools and obtains its drive through the pulley.

- Ans**
- 1. pillar
  - 2. spindle
  - 3. motor
  - 4. hand wheel

Question ID : 630680197998  
Status : Answered  
Chosen Option : 2

**Q.31** Torque transmitted by a hollow circular shaft is given by \_\_\_\_\_ [where  $R_i$  ( $=D_i/2$ ) &  $R_o$  ( $=D_o/2$ ) are inner and outer radii, respectively,  $\tau$  is shear stress and L is Length of shaft].

- Ans**
- 1.  $\frac{\pi}{16} \tau (D_o^3 - D_i^3)$
  - 2.  $\frac{\pi}{16} \tau (R_o^3 - R_i^3)$
  - 3.  $\frac{\pi}{16} \tau \left( \frac{D_o^4 - D_i^4}{D_o} \right)$
  - 4.  $\frac{\pi}{16} \tau \left( \frac{R_o^4 - R_i^4}{R_o} \right)$

Question ID : 630680197999  
Status : Answered  
Chosen Option : 3

**Q.32** \_\_\_\_\_ is a beam which is extended beyond the support.

- Ans**
- 1. Fixed beam
  - 2. Unstructured beam
  - 3. Overhanging beam
  - 4. Rigid beam

Question ID : 630680198002  
Status : Answered  
Chosen Option : 3



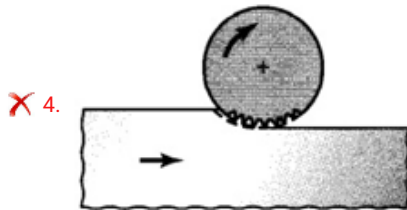
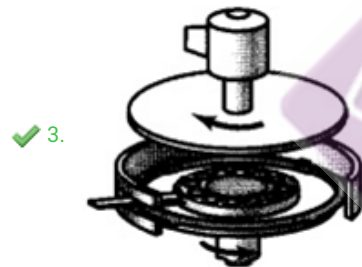
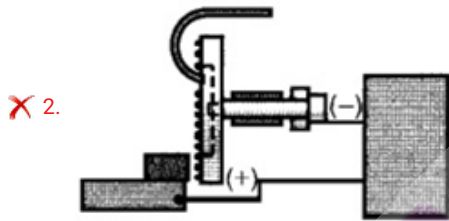
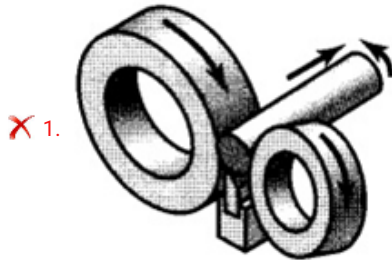
Q.33 \_\_\_\_\_ is the ratio of the power available at the shaft to the power developed by the runner.

- Ans
- ✓ 1. Mechanical efficiency
  - ✗ 2. Thermal efficiency
  - ✗ 3. Design efficiency
  - ✗ 4. Ideal efficiency

Question ID : 630680197982  
Status : Answered  
Chosen Option : 1

Q.34 Of the finishing operations shown, which of the following best represents a lapping operation?

Ans

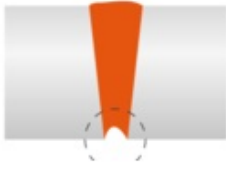


Question ID : 630680197997  
Status : Answered  
Chosen Option : 2

Q.35 Which of the welding defects shown in the following figures represents concavity?

Ans

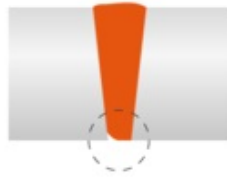
✓ 1.



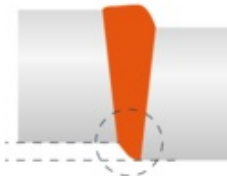
✗ 2.



✗ 3.



✗ 4.



Question ID : 630680197996

Status : Answered

Chosen Option : 1

Q.36 Stream function,  $\psi$ , is defined for 2D incompressible flow in such a way that it satisfies \_\_\_\_\_.

Ans

✗ 1. Navier–Stokes equation

✗ 2. energy conservation principle

✓ 3. continuity equation

✗ 4. Bernoulli's equation

Question ID : 630680197978

Status : Answered

Chosen Option : 3

Q.37 A wooden pattern used in the casting process to generate surfaces of revolution in large castings and to prepare moulds out of a paste-like material is known as \_\_\_\_\_.

Ans

✗ 1. gated pattern

✗ 2. loose pattern

✗ 3. match plate pattern

✓ 4. sweep pattern

Question ID : 630680197991

Status : Answered

Chosen Option : 4

**Q.38** Identify whether the following statements are correct or incorrect.

**Statement A:** A Carnot heat engine consists of two isentropic and two isothermal processes.

**Statement B:** The expression  $\oint \delta W \leq 0$ , is an outcome of the second law of thermodynamics.

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

Question ID : 630680197984  
Status : Answered  
Chosen Option : 1

**Q.39** Which of the following is a Bernoulli-type obstruction flow measuring device?

- Ans**
- 1. Rotameter
  - 2. Vortex meter
  - 3. Coriolis mass flow meter
  - 4. Venturi tube

Question ID : 630680197975  
Status : Answered  
Chosen Option : 4

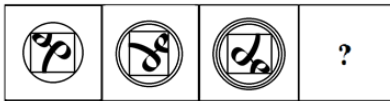
**Q.40** The ratio of the total volume to the clearance volume of a cylinder of a compression ignition engine is known as:

- Ans**
- 1. volumetric efficiency
  - 2. cut-off ratio
  - 3. compression ratio
  - 4. air-fuel ratio

Question ID : 630680197985  
Status : Answered  
Chosen Option : 3

Section : Reasoning

**Q.1** Select the figure from among the given options that can replace the question mark (?) in the following series.

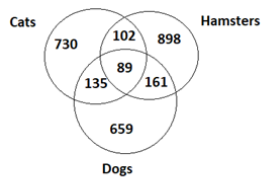


**Ans**



Question ID : 630680198020  
 Status : Answered  
 Chosen Option : 1

**Q.2** Study the given diagram carefully and answer the question that follows. The numbers in different sections indicate the numbers of persons with different pet animals.

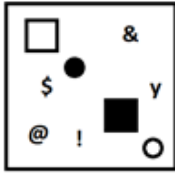


How many persons have both dogs and hamsters as pets?

- Ans**
- ✗ 1. 161
  - ✗ 2. 89
  - ✓ 3. 250
  - ✗ 4. 190

Question ID : 630680198016  
 Status : Answered  
 Chosen Option : 3

Q.3 Select the correct water image of the given figure.



Ans

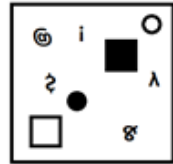
✗ 1.



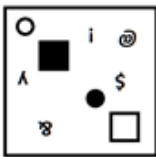
✗ 2.



✓ 3.



✗ 4.



Question ID : 630680198021

Status : Answered

Chosen Option : 3

Q.4 Which two numbers should be interchanged to make the following equation correct?

$$15 \times 5 \div 25 + 26 + 6 = 17$$

Ans

✗ 1. 6 and 17

✗ 2. 5 and 25

✓ 3. 17 and 26

✗ 4. 5 and 15

Question ID : 630680198023

Status : Answered

Chosen Option : 3

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

18, 20, 24, 32, 48, ?

- Ans  1. 80  
 2. 82  
 3. 78  
 4. 72

Question ID : 630680198022  
Status : Answered  
Chosen Option : 1

Q.6 Eight fishermen, Q, R, S, T, U, V, W and A, are sitting around a square table, facing the centre of the table. Some of them are sitting at the corners, while some are sitting at the exact centre of the sides. S, at a corner, is at the immediate left of W. Q is sitting third to the left of A. A and V are diagonally opposite to each other. R, at a corner, is sitting exactly between U and Q. Who is sitting at the immediate left of A?

- Ans  1. T  
 2. U  
 3. W  
 4. S

Question ID : 630680198015  
Status : Answered  
Chosen Option : 2

Q.7 If '+' means 'division', '-' means 'addition', 'x' means 'subtraction' and '÷' means 'multiplication', what will be the value of the following expression?

$$[((13 \times 7) - (4 \div 4)) + (8 - 3)] \div 3$$

- Ans  1. 9  
 2. 1  
 3. 3  
 4. 6

Question ID : 630680198024  
Status : Answered  
Chosen Option : 4

Q.8 In a certain code language, 'DECENT' is coded as 'EGFISZ' and 'CAREER' is coded as 'DCUIJX'. How will 'CHOSEN' be coded in that language?

- Ans  1. DJRWJT  
 2. DJRWJU  
 3. DJRWKT  
 4. DJRVJT

Question ID : 630680198017  
Status : Answered  
Chosen Option : 1

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.)

AMMETER : CURRENT :: ODOMETER : ?

- Ans  1. DISTANCE  
 2. WIND  
 3. STRAINS  
 4. THICKNESS

Question ID : 630680198019  
Status : Answered  
Chosen Option : 1

Q.10 If  
'M ≠ N' means 'M is the brother of N',  
'M € N' means 'M is the husband of N',  
'M + N' means 'M is the mother of N',  
'M λ N' means 'M is the sister of the husband of N' and  
'M © N' means 'M is the wife of N',  
then how is Q related to T in the following expression?  
P ≠ Q € R + S λ T

- Ans  1. Wife's father  
 2. Husband's father  
 3. Brother  
 4. Father's mother

Question ID : 630680198018  
Status : Answered  
Chosen Option : 2

Section : Quantitative Aptitude

Q.1 A vendor sold an article at a loss of  $5\frac{1}{2}\%$ . If he had sold it for ₹92 more, he would gain 6%. To gain 10% he should sell it for \_\_\_\_.

- Ans  1. ₹865  
 2. ₹880  
 3. ₹920  
 4. ₹905

Question ID : 630680198030  
Status : Answered  
Chosen Option : 2

**Q.2** A 225 m long train crosses a man walking at a speed of 3.5 km/h in the opposite direction in 15 seconds. What is the distance travelled by train in 6 hours?

- Ans**
- 1. 312km
  - 2. 328 km
  - 3. 321 km
  - 4. 303 km

Question ID : 630680198031  
Status : Answered  
Chosen Option : 4

**Q.3** A car travels two-seventh of the distance at a speed of 50 km/h, half of the remaining distance at a speed of 60 km/h, and the remaining distance at a speed of 75 km/h. What is the average speed of the car for the whole journey? (correct to two decimal places)

- Ans**
- 1. 58.96 km/h
  - 2. 59.75 km/h
  - 3. 57.69 km/h
  - 4. 60.87 km/h

Question ID : 630680198028  
Status : Answered  
Chosen Option : 4

**Q.4** The largest five-digit number which is exactly divisible by 36, 42 and 65 is:

- Ans**
- 1. 99760
  - 2. 98280
  - 3. 98560
  - 4. 99540

Question ID : 630680198026  
Status : Answered  
Chosen Option : 2

**Q.5** If the GST be reduced from 7.0% to 6.25% on an electric cooker, what difference does it make to a person who purchases the electric cooker with the marked price of ₹7,360?

- Ans**
- 1. ₹58.50
  - 2. ₹55.20
  - 3. ₹59.40
  - 4. ₹60.80

Question ID : 630680198029  
Status : Answered  
Chosen Option : 2



Q.6 If the average of 10 consecutive numbers is 13.5, then the average of the first two consecutive numbers is:

- Ans
- 1. 10.5
  - 2. 11.5
  - 3. 8.5
  - 4. 9.5

Question ID : 630680198027  
Status : Answered  
Chosen Option : 4

Q.7 The diagonal and one side of a rectangular plot are 130 m and 126 m, respectively. The perimeter of the rectangular plot is:

- Ans
- 1. 256 m
  - 2. 316 m
  - 3. 284 m
  - 4. 300 m

Question ID : 630680198033  
Status : Answered  
Chosen Option : 1

Q.8 A and B can complete a work in 14 days and 21 days, respectively. They started doing the work but after 4 days A had to leave and B alone completed the remaining work. In how many days was the whole work completed?

- Ans
- 1. 15
  - 2. 17
  - 3. 20
  - 4. 11

Question ID : 630680198032  
Status : Answered  
Chosen Option : 1

Q.9 Simplify the following expression.

$$\frac{\sqrt{1.21} + \sqrt{2.25} - \sqrt{2.89}}{\sqrt{2.56} - \sqrt{1.69}} = ?$$

- Ans
- 1. 5
  - 2. 6
  - 3. 3
  - 4. 4

Question ID : 630680198025  
Status : Answered  
Chosen Option : 3

**Q.10** If the radius of a sphere is increased by 2cm, then its surface area increases by  $1056 \text{ cm}^2$ . The volume of the sphere increases by: (correct to three decimal places)

- Ans
- 1.  $11,096.381 \text{ cm}^3$
  - 2.  $12,051.112 \text{ cm}^3$
  - 3.  $10,095.564 \text{ cm}^3$
  - 4.  $10,255.253 \text{ cm}^3$

Question ID : **630680198034**  
Status : **Not Answered**  
Chosen Option : --

Section : **General Awareness**

**Q.1** In which of the following years did Swami Vivekananda found Ramakrishna Mission?

- Ans
- 1. 1885
  - 2. 1890
  - 3. 1897
  - 4. 1889

Question ID : **630680198036**  
Status : **Not Answered**  
Chosen Option : --

**Q.2** Who among the following is the fifth Indian woman to win a World Title at the Women's World Boxing Championships?

- Ans
- 1. Mary Kom
  - 2. Nikhat Zareen
  - 3. Lovlina Borgohain
  - 4. Pooja Rani

Question ID : **630680198044**  
Status : **Answered**  
Chosen Option : 2

**Q.3** Which of the following acids is also known as acetic acid?

- Ans
- 1. Ethanoic acid
  - 2. Sulphuric acid
  - 3. Nitric acid
  - 4. Formic acid

Question ID : **630680198041**  
Status : **Not Answered**  
Chosen Option : --

Q.4 What is the yearly average temperature of tropical deciduous forests?

- Ans
- 1. 20° C
  - 2. 25° C
  - 3. 15° C
  - 4. 10° C

Question ID : 630680198040  
Status : Not Answered  
Chosen Option : --

Q.5 Which of the following Articles of the Constitution of India talks about 'Prohibition of employment of children in factories'?

- Ans
- 1. Article 30
  - 2. Article 29
  - 3. Article 24
  - 4. Article 23

Question ID : 630680198042  
Status : Answered  
Chosen Option : 3

Q.6 Dubdi Monastery is situated in:

- Ans
- 1. Meghalaya
  - 2. Tripura
  - 3. Sikkim
  - 4. Manipur

Question ID : 630680198037  
Status : Not Answered  
Chosen Option : --

Q.7 Who among the following governors has unveiled PARAM Shakti, a petascale supercomputer, at IIT Kharagpur?

- Ans
- 1. Ganga Prasad
  - 2. RN Ravi
  - 3. Gurmit Singh
  - 4. Jagdeep Dhankhar

Question ID : 630680198035  
Status : Answered  
Chosen Option : 4

Q.8 In May 2022, an online platform called 'Trade nxt' was launched by:

- Ans
- 1. Indian Bank
  - 2. Axis Bank
  - 3. Yes Bank
  - 4. Union Bank of India

Question ID : 630680198039  
Status : Answered  
Chosen Option : 4

Q.9 Which of the following is NOT one of the five subjects that have been shifted from the State List to the Concurrent List as per the 42nd Amendment Act, 1976?

- Ans
- 1. Education
  - 2. Forests
  - 3. Weights and measures
  - 4. Marriage

Question ID : 630680198043  
Status : Answered  
Chosen Option : 4

Q.10 For how many districts across India has the digital banking been proposed by the Government in Union Budget 2022-23?

- Ans
- 1. 90
  - 2. 80
  - 3. 75
  - 4. 85

Question ID : 630680198038  
Status : Not Answered  
Chosen Option : --

Section : English Language

Q.1 Select the most appropriate meaning of the given idiom.

Have your heart in your mouth

- Ans
- 1. To be very sick
  - 2. To have an unpleasant argument
  - 3. To behave in a foolish manner
  - 4. To be extremely frightened

Question ID : 630680198050  
Status : Answered  
Chosen Option : 4

Q.2 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. The bridge offers unusual views for visitors who have a head for heights.
- B. In the Czech Republic, the world's longest pedestrian suspension bridge opened at a mountain resort.
- C. The 721-meter-long bridge is at an altitude of more than 1100 metres above sea level and it connects two ridges of the mountains.
- D. Up to 500 people can be on the bridge; however, if winds reach 135 kph, it'll close for safety reasons.

- Ans
- 1. ACDB
  - 2. CABD
  - 3. BADC
  - 4. BCAD

Question ID : 630680198051  
Status : Answered  
Chosen Option : 4

Q.3 Select the most appropriate option that can substitute the underlined words in the given sentence.

An image is worth a thousand words

- Ans
- 1. an action
  - 2. a picture
  - 3. a painting
  - 4. a movie

Question ID : 630680198049  
Status : Answered  
Chosen Option : 3

Q.4 Select the most appropriate synonym of the given word to fill in the blank.

**EXPEDITE**

The Managing Director of the company asked the manger to \_\_\_\_\_ the matter with the government so that the project can be started.

- Ans
- 1. defer
  - 2. assist
  - 3. accelerate
  - 4. retard

Question ID : 630680198047  
Status : Answered  
Chosen Option : 2

Q.5 Select the most appropriate option to fill in the blank.

They live on \_\_\_\_\_ opposite side of the road.

- Ans
- 1. no word need
  - 2. an
  - 3. the
  - 4. a

Question ID : 630680198045  
Status : Answered  
Chosen Option : 3

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

The gull circled over the lake for a while. Then it \_\_\_\_\_ down majestically to catch a fish.

- Ans
- 1. swoop
  - 2. had swooped
  - 3. swooped
  - 4. swoops

Question ID : 630680198046  
Status : Not Answered  
Chosen Option : --

Q.7 The following sentence has been divided into parts. One of them may contain an error. Select the part that contains the error from the given options. If you don't find any error, mark 'No error' as your answer.

The session will not be adjourned / until the Finance Minister / has presented the budget.

- Ans
- 1. until the Finance Minister
  - 2. has presented the budget.
  - 3. The session will not be adjourned
  - 4. no error

Question ID : 630680198048  
Status : Answered  
Chosen Option : 2

**Comprehension:**

Read the given passage and answer the questions that follow.

Kangra Miniature painting is one of the schools of Pahari paintings along with Guler, Basholi, Mandi, Chamba and Bilaspur. Miniatures are small-sized paintings, generally done in water colour on cloth or paper.

Painting in the Kangra region blossomed under the patronage of a remarkable ruler, Raja Sansar Chand (1775–1823). It is believed that when Prakash Chand of Guler came under grave financial crisis and could no longer maintain his atelier, his master artist, Manaku, and his sons took service under Sansar Chand of Kangra. Raja Sansar Chand established supremacy of Kangra over all surrounding hill states. Tira Sujanpur, his capital town on the banks of river Beas, emerged as the most prolific centre of painting under his patronage. The Kangra style is by far the most poetic and lyrical of Indian styles marked with serene beauty and delicacy of execution. Characteristic features of the Kangra style are delicacy of line, brilliance of colour and minuteness of decorative details. Distinctive is the delineation of the female face, with straight nose in line with the forehead, which came in vogue around the 1790s is the most distinctive feature of this style.

Most popular themes that were painted were the Bhagvata Purana, Gita Govinda, Nala Damayanti and Bihari Satsai. Many other paintings comprise a pictorial record of Sansar Chand and his court. He is shown sitting by the riverside, listening to music, watching dancers, presiding over festivals, practising tent pegging and archery, drilling troops and so on and forth. Fattu, Purkhu and Khushala are important painters of the Kangra style.

**SubQuestion No : 8**

**Q.8 Which of the following was NOT a popular theme of Kangra school of paintings?**

- Ans**
- 1. Bihari Satsai
  - 2. Bhagavad Gita
  - 3. Bhagvata Purana
  - 4. Gita Govinda

Question ID : 630680198054

Status : Answered

Chosen Option : 2

**Comprehension:**

Read the given passage and answer the questions that follow.

Kangra Miniature painting is one of the schools of Pahari paintings along with Guler, Basholi, Mandi, Chamba and Bilaspur. Miniatures are small-sized paintings, generally done in water colour on cloth or paper.

Painting in the Kangra region blossomed under the patronage of a remarkable ruler, Raja Sansar Chand (1775–1823). It is believed that when Prakash Chand of Guler came under grave financial crisis and could no longer maintain his atelier, his master artist, Manaku, and his sons took service under Sansar Chand of Kangra. Raja Sansar Chand established supremacy of Kangra over all surrounding hill states. Tira Sujanpur, his capital town on the banks of river Beas, emerged as the most prolific centre of painting under his patronage. The Kangra style is by far the most poetic and lyrical of Indian styles marked with serene beauty and delicacy of execution. Characteristic features of the Kangra style are delicacy of line, brilliance of colour and minuteness of decorative details. Distinctive is the delineation of the female face, with straight nose in line with the forehead, which came in vogue around the 1790s is the most distinctive feature of this style.

Most popular themes that were painted were the Bhagvata Purana, Gita Govinda, Nala Damayanti and Bihari Satsai. Many other paintings comprise a pictorial record of Sansar Chand and his court. He is shown sitting by the riverside, listening to music, watching dancers, presiding over festivals, practising tent pegging and archery, drilling troops and so on and forth. Fattu, Purkhu and Khushala are important painters of the Kangra style.

**SubQuestion No : 9**

**Q.9 The theme of the passage revolves around:**

- Ans**
- 1. Pahari style of painting
  - 2. Raja Sansar Chand of Kangra
  - 3. Kangra style of painting
  - 4. themes of paintings in 1790s

Question ID : 630680198053

Status : Answered

Chosen Option : 3



**Comprehension:**

Read the given passage and answer the questions that follow.

Kangra Miniature painting is one of the schools of Pahari paintings along with Guler, Basholi, Mandi, Chamba and Bilaspur. Miniatures are small-sized paintings, generally done in water colour on cloth or paper.

Painting in the Kangra region blossomed under the patronage of a remarkable ruler, Raja Sansar Chand (1775–1823). It is believed that when Prakash Chand of Guler came under grave financial crisis and could no longer maintain his atelier, his master artist, Manaku, and his sons took service under Sansar Chand of Kangra. Raja Sansar Chand established supremacy of Kangra over all surrounding hill states. Tira Sujanpur, his capital town on the banks of river Beas, emerged as the most prolific centre of painting under his patronage. The Kangra style is by far the most poetic and lyrical of Indian styles marked with serene beauty and delicacy of execution. Characteristic features of the Kangra style are delicacy of line, brilliance of colour and minuteness of decorative details. Distinctive is the delineation of the female face, with straight nose in line with the forehead, which came in vogue around the 1790s is the most distinctive feature of this style.

Most popular themes that were painted were the Bhagvata Purana, Gita Govinda, Nala Damayanti and Bihari Satsai. Many other paintings comprise a pictorial record of Sansar Chand and his court. He is shown sitting by the riverside, listening to music, watching dancers, presiding over festivals, practising tent pegging and archery, drilling troops and so on and forth. Fattu, Purkhu and Khushala are important painters of the Kangra style.

**SubQuestion No : 10**

**Q.10 Which of the following statements are true?**

**A. Tira Sujanpur was the most prolific centre of painting under the patronage of Raja Sansar Chand.**

**B. Sansar Chand and his court formed one of the popular subjects of Kangra paintings.**

**C Kangra paintings are known for their subdued colours and delineation of courtiers' faces.**

- Ans**
- 1. A and C are true
  - 2. B and C are true
  - 3. A and B are true
  - 4. A, B and C all are true

Question ID : 630680198055

Status : **Not Answered**

Chosen Option : --