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BSF HC (RO)

Previous Year Paper
29 Aug, 2023 Shift 1





सीमा सुरक्षा बल
BORDER SECURITY FORCE

Participant ID	
Participant Name	
Test Center Name	
Test Date	29/08/2023
Test Time	8:30 AM - 10:30 AM
Subject	Head Constable (Radio Operator)

Section : Physics

Q.1 A hollow cylinder and a solid cylinder having masses in the ratio 1 : 2 and having the same radii are made to rotate along their central axis. Both are acted upon by the same torque when they are at rest. Which of the following will have a more angular velocity when the torque has been removed from both after the same time?

- Ans ☒ 1. Same for both
- ☒ 2. Depends on the ratio of the mass to radius
- ☒ 3. Hollow cylinder
- ☒ 4. Solid cylinder

Question ID : 630680334346
Option 1 ID : 6306801300659
Option 2 ID : 6306801300660
Option 3 ID : 6306801300657
Option 4 ID : 6306801300658
Status : Answered
Chosen Option : 1

Q.2 A vessel contains ideal gas and it has a volume of 28m^3 . The total number of molecules N in it at a temperature of 27°C and a pressure of $3.0\times 10^5\text{ Pa}$ is about (take Boltzmann constant = $1.4\times 10^{-23}\text{ J/K}$):

- Ans ☒ 1. 6×10^{29}
- ☒ 2. 6×10^{27}
- ☒ 3. 6×10^{28}
- ☒ 4. 6×10^{30}

Question ID : 630680334352
Option 1 ID : 6306801300683
Option 2 ID : 6306801300681
Option 3 ID : 6306801300682
Option 4 ID : 6306801300684
Status : Answered
Chosen Option : 2

Q.3 A block of mass 3 kg is attached with a spring of spring constant 1200 N/m. When the block is displaced to a distance 15 cm from its equilibrium position and released, it executes a simple harmonic motion. Then the maximum potential energy of the block is:

- Ans
- ☒ 1. 16.5 J
 - ☒ 2. 13.5 J
 - ☒ 3. 19.5 J
 - ☒ 4. 10.5 J

Question ID : 630680334359
Option 1 ID : 6306801300711
Option 2 ID : 6306801300710
Option 3 ID : 6306801300712
Option 4 ID : 6306801300709
Status : Not Answered
Chosen Option : --

Q.4 A pipe, 60.0 cm long is closed at one end. Which harmonic mode of the pipe resonates a 412.5 Hz source? Take the speed of sound in air as 330 m/s.

- Ans
- ☒ 1. 1st harmonic
 - ☒ 2. 7th harmonic
 - ☒ 3. 5th harmonic
 - ☒ 4. 3rd harmonic

Question ID : 630680334360
Option 1 ID : 6306801300713
Option 2 ID : 6306801300716
Option 3 ID : 6306801300715
Option 4 ID : 6306801300714
Status : Answered
Chosen Option : 4

Q.5 Which of the following spectral series lies in the ultraviolet region of a hydrogen spectrum?

- Ans
- ☒ 1. Paschen series
 - ☒ 2. Balmer series
 - ☒ 3. Lyman series
 - ☒ 4. Brackett series

Question ID : 630680334412
Option 1 ID : 6306801300923
Option 2 ID : 6306801300921
Option 3 ID : 6306801300922
Option 4 ID : 6306801300924
Status : Answered
Chosen Option : 2

Q.6 The horizontal component of the earth's magnetic field at a certain place is $5.0 \times 10^{-5} \text{ T}$ and the direction of the field is from the geographic south to the geographic north. If a very long straight conductor is placed on a horizontal table and is carrying a steady current of 3 A from east to west, then the force per unit length on the conductor is:

- Ans
- ☒ 1. $1.5 \times 10^{-4} \text{ N/m}$
 - ☐ 2. $1.0 \times 10^{-4} \text{ N/m}$
 - ☐ 3. $2.0 \times 10^{-4} \text{ N/m}$
 - ☐ 4. $2.5 \times 10^{-4} \text{ N/m}$

Question ID : 630680334390
Option 1 ID : 6306801300834
Option 2 ID : 6306801300833
Option 3 ID : 6306801300835
Option 4 ID : 6306801300836
Status : Answered
Chosen Option : 1

Q.7 Rubber is an elastomer. Which of the following holds true for rubber?

- Ans
- ☒ 1. Rubber does not obey Hooke's law over most of the region and there is no well-defined plastic region.
 - ☐ 2. Rubber does not obey Hooke's law over most of the region but a well-defined plastic region exists.
 - ☐ 3. Rubber obeys Hooke's law over most of the region and a well-defined plastic region exists.
 - ☐ 4. Rubber obeys Hooke's law over most of the region but a well-defined plastic region does not exist.

Question ID : 630680334344
Option 1 ID : 6306801300652
Option 2 ID : 6306801300649
Option 3 ID : 6306801300650
Option 4 ID : 6306801300651
Status : Answered
Chosen Option : 4

Q.8 Consider a tightly wound 500 turn coil of radius 20 cm, carrying a current of 2 A. The magnitude of the magnetic field at the centre of the coil is $n\pi \times 10^{-3} \text{ T}$. Then n is:

- Ans
- ☐ 1. 3
 - ☐ 2. 2
 - ☒ 3. 1
 - ☐ 4. 4

Question ID : 630680334388
Option 1 ID : 6306801300827
Option 2 ID : 6306801300826
Option 3 ID : 6306801300825
Option 4 ID : 6306801300828
Status : Answered
Chosen Option : 4



Q.9 A flux density of 10 Wb/m^2 is passing through a circular circuit of radius 10 cm with 150 turns and the circuit is carrying a current of 10.0 A . Then the self inductance of the circuit is:

Ans

✓ 1. $1.5\pi \text{ H}$

✗ 2. $3.5\pi \text{ H}$

✗ 3. $2.5\pi \text{ H}$

✗ 4. $0.5\pi \text{ H}$

Question ID : 630680334403

Option 1 ID : 6306801300886

Option 2 ID : 6306801300888

Option 3 ID : 6306801300887

Option 4 ID : 6306801300885

Status : Not Answered

Chosen Option : --

Q.10 For a uniform electric field \vec{E} along the x-axis, the equipotential surfaces are planes:

Ans

✓ 1. parallel to the y-z plane

✗ 2. parallel to the x-y plane

✗ 3. perpendicular to the y-z plane

✗ 4. parallel to the x-z plane

Question ID : 630680334365

Option 1 ID : 6306801300734

Option 2 ID : 6306801300736

Option 3 ID : 6306801300735

Option 4 ID : 6306801300733

Status : Answered

Chosen Option : 2

Q.11 If the last band of a carbon resistor is silver, then its tolerance level is:

Ans

✓ 1. 10%

✗ 2. 2%

✗ 3. 12%

✗ 4. 5%

Question ID : 630680334376

Option 1 ID : 6306801300779

Option 2 ID : 6306801300777

Option 3 ID : 6306801300780

Option 4 ID : 6306801300778

Status : Answered

Chosen Option : 1



Q.12 Two charges of $+4\ \mu\text{C}$ and $-4\ \mu\text{C}$ are placed at a distance of 30 cm to form an electric dipole. The maximum torque experienced by the dipole, if it is placed in an electric field of $5 \times 10^6\ \text{N/C}$ is:

- Ans
- ☒ 1. 2 N m
 - ☒ 2. 4 N m
 - ☒ 3. 6 N m
 - ☒ 4. 8 N m

Question ID : 630680334369

Option 1 ID : 6306801300749

Option 2 ID : 6306801300750

Option 3 ID : 6306801300751

Option 4 ID : 6306801300752

Status : Answered

Chosen Option : 3

Q.13 An EMF of 3.76 V is induced in a coil when the current in it is changing from 4 A to 12A in 6s. The self-inductance of the coil is:

- Ans
- ☒ 1. 4.41 H
 - ☒ 2. 1.41 H
 - ☒ 3. 5.64 H
 - ☒ 4. 2.82 H

Question ID : 630680334402

Option 1 ID : 6306801300883

Option 2 ID : 6306801300881

Option 3 ID : 6306801300884

Option 4 ID : 6306801300882

Status : Answered

Chosen Option : 4

Q.14 An electron in a hydrogen atom (Bohr model) makes a transition from $n = 3$ state to $n = 1$ state. The frequency of the emitted photon is (take $R = 1.0 \times 10^7/\text{m}$):

- Ans
- ☒ 1. $1.67 \times 10^{15}\ \text{Hz}$
 - ☒ 2. $4.67 \times 10^{15}\ \text{Hz}$
 - ☒ 3. $2.67 \times 10^{15}\ \text{Hz}$
 - ☒ 4. $3.67 \times 10^{15}\ \text{Hz}$

Question ID : 630680334415

Option 1 ID : 6306801300933

Option 2 ID : 6306801300936

Option 3 ID : 6306801300934

Option 4 ID : 6306801300935

Status : Not Answered

Chosen Option : --



Q.15 Consider a device with resistance R, to which a power P is to be delivered via transmission cables having a resistance Rc. If a current I is passing through the device by a voltage V, then the power dissipated in the connecting wires is:

- Ans
- ✓ 1. inversely proportional to V^2
 - ✗ 2. proportional to V^2
 - ✗ 3. inversely proportional to V
 - ✗ 4. proportional to V

Question ID : 630680334382
Option 1 ID : 6306801300804
Option 2 ID : 6306801300802
Option 3 ID : 6306801300803
Option 4 ID : 6306801300801
Status : Answered
Chosen Option : 4

Q.16 If in a current carrying conductor \vec{j} , \vec{E} and σ denote the current density, uniform electric field in the conductor along the current density and conductivity, respectively, then which of the following relations holds?

- Ans
- ✓ 1. $\vec{j} = \sigma \vec{E}$
 - ✗ 2. $\vec{E}\sigma = \vec{j}$
 - ✗ 3. $\vec{E} = \sigma \vec{j}$
 - ✗ 4. $\vec{E} \cdot \vec{j} = \sigma$

Question ID : 630680334374
Option 1 ID : 6306801300769
Option 2 ID : 6306801300772
Option 3 ID : 6306801300770
Option 4 ID : 6306801300771
Status : Answered
Chosen Option : 4

Q.17 A slab of material of dielectric constant 12 has the same area A as that of the area of the plates of a parallel-plate capacitor. But the slab has a thickness d/4, where d is the separation of the plates. If the slab is fully inserted between the plates, the capacitance changes from C_0 (free space capacitance of the parallel plate capacitor) to C and $C/C_0 = 48/M$. Then M is:

- Ans
- ✓ 1. 37
 - ✗ 2. 47
 - ✗ 3. 27
 - ✗ 4. 57

Question ID : 630680334371
Option 1 ID : 6306801300758
Option 2 ID : 6306801300759
Option 3 ID : 6306801300757
Option 4 ID : 6306801300760
Status : Not Answered
Chosen Option : --

Q.18 Two light waves A and B of wavelengths 400 nm and 500 nm, respectively, are scattered. The ratio of the intensities of these two light waves $I_A : I_B$ is:

Ans

☐ 1. $\left(\frac{4}{5}\right)^2$

☐ 2. $\left(\frac{4}{5}\right)^4$

☒ 3. $\left(\frac{5}{4}\right)^4$

☐ 4. $\left(\frac{5}{4}\right)^2$

Question ID : 630680334406

Option 1 ID : 6306801300897

Option 2 ID : 6306801300899

Option 3 ID : 6306801300900

Option 4 ID : 6306801300898

Status : Answered

Chosen Option : 1

Q.19 If the radioactive decay constant of a radioactive substance is 0.077 per year, what is the half-life of the substance ($\ln 2 = 0.693$)?

Ans ☒ 1. 9 years

☐ 2. 8 years

☐ 3. 6 years

☐ 4. 7 years

Question ID : 630680334416

Option 1 ID : 6306801300940

Option 2 ID : 6306801300939

Option 3 ID : 6306801300937

Option 4 ID : 6306801300938

Status : Not Answered

Chosen Option : --



Q.20 The speed of a longitudinal wave in a metal bar with mass density $\rho = 2.7 \times 10^3 \text{ kg/m}^3$ and Young modulus of its material $Y = 9 \times 10^{10} \text{ Pa}$ is given by:

Ans

☐ 1. $\frac{2 \times 10^4}{\sqrt{3}} \text{ m/s}$

☐ 2. $3.33 \times 10^7 \text{ m/s}$

☐ 3. $6.66 \times 10^7 \text{ m/s}$

☒ 4. $\frac{10^4}{\sqrt{3}} \text{ m/s}$

Question ID : 630680334354
Option 1 ID : 6306801300692
Option 2 ID : 6306801300689
Option 3 ID : 6306801300691
Option 4 ID : 6306801300690
Status : Not Answered
Chosen Option : --

Q.21 Rambabu holds a bucket of 30 kg by applying a 30 N force. Rambabu first moves a horizontal distance of 20 m and then climbs up a vertical distance of 30 m. The total work done by Rambabu is:

Ans

☐ 1. 600 J

☐ 2. 1200 J

☒ 3. 900 J

☐ 4. 1500 J

Question ID : 630680334348
Option 1 ID : 6306801300665
Option 2 ID : 6306801300667
Option 3 ID : 6306801300666
Option 4 ID : 6306801300668
Status : Answered
Chosen Option : 3

Q.22 A spherical drop of mercury of radius $R = 20 \text{ cm}$ forms a capacitor with capacitance $C = 4\pi\epsilon_0 R$. If 27 such drops combine to form a single large drop, then the capacitance of the large drop will be:

Ans

☐ 1. 4 C

☐ 2. 5 C

☐ 3. 2 C

☒ 4. 3 C

Question ID : 630680334373
Option 1 ID : 6306801300767
Option 2 ID : 6306801300768
Option 3 ID : 6306801300765
Option 4 ID : 6306801300766
Status : Answered
Chosen Option : 4

Q.23 PV=constant denotes:

- Ans
- ☒ 1. Charles's law
 - ☒ 2. Pascal's law
 - ☒ 3. Boyle's law
 - ☒ 4. Dalton's law of partial pressure

Question ID : 630680334350
Option 1 ID : 6306801300673
Option 2 ID : 6306801300675
Option 3 ID : 6306801300676
Option 4 ID : 6306801300674
Status : Answered
Chosen Option : 3

Q.24 Consider a battery with an EMF of 20 V and an internal resistance of 0.5 Ω is connected in series to a 3.5 Ω resistor. Then the terminal voltage of the battery is:

- Ans
- ☒ 1. 17.5 V
 - ☒ 2. 18.5 V
 - ☒ 3. 16.5 V
 - ☒ 4. 15.5 V

Question ID : 630680334378
Option 1 ID : 6306801300787
Option 2 ID : 6306801300788
Option 3 ID : 6306801300786
Option 4 ID : 6306801300785
Status : Not Answered
Chosen Option : --

Q.25 Lenz's law is a consequence of:

- Ans
- ☒ 1. law of conservation of energy
 - ☒ 2. law of conservation of angular momentum
 - ☒ 3. law of conservation of linear momentum
 - ☒ 4. law of conservation of potential energy

Question ID : 630680334385
Option 1 ID : 6306801300815
Option 2 ID : 6306801300814
Option 3 ID : 6306801300813
Option 4 ID : 6306801300816
Status : Answered
Chosen Option : 1

Q.26 Suppose a prism is made of a material whose refractive index is $\sqrt{3}$ and the angle of prism is 60° . Then the angle of minimum of deviation is:

- Ans
- ☐ 1. 30°
 - ☐ 2. 45°
 - ☒ 3. 60°
 - ☐ 4. 90°

Question ID : 630680334411
Option 1 ID : 6306801300917
Option 2 ID : 6306801300918
Option 3 ID : 6306801300919
Option 4 ID : 6306801300920
Status : Answered
Chosen Option : 3

Q.27 Raju (mass 80 kg) is standing on a frictionless plane surface. He kicks a football of mass 0.5 kg lying near his feet, giving it a velocity of $(8.0 \text{ m/s})\hat{i}$. The velocity of Raju after the kick is (\hat{i} is the unit vector along the x-axis):

- Ans
- ☐ 1. $-0.5 \text{ m/s}\hat{i}$
 - ☐ 2. $0.5 \text{ m/s}\hat{i}$
 - ☐ 3. $0.05 \text{ m/s}\hat{i}$
 - ☒ 4. $-0.05 \text{ m/s}\hat{i}$

Question ID : 630680334343
Option 1 ID : 6306801300648
Option 2 ID : 6306801300647
Option 3 ID : 6306801300646
Option 4 ID : 6306801300645
Status : Answered
Chosen Option : 4

Q.28 An AC voltage is applied to a pure inductor. The current in the inductor _____ the voltage by _____.

- Ans
- ☐ 1. leads, π
 - ☐ 2. lags, π
 - ☐ 3. leads, $\frac{\pi}{2}$
 - ☒ 4. lags, $\frac{\pi}{2}$

Question ID : 630680334397
Option 1 ID : 6306801300863
Option 2 ID : 6306801300861
Option 3 ID : 6306801300864
Option 4 ID : 6306801300862
Status : Answered
Chosen Option : 3



Q.29 The potential at a point P due to a charge Q is 60 V. Hence, the work done required to bring a charge of 5 C from infinity to the point P is:

- Ans
- ☒ 1. 12 J
 - ☒ 2. 24 J
 - ☒ 3. 300 J
 - ☒ 4. 100 J

Question ID : 630680334364
Option 1 ID : 6306801300729
Option 2 ID : 6306801300732
Option 3 ID : 6306801300731
Option 4 ID : 6306801300730
Status : Answered
Chosen Option : 3

Q.30 Consider a wire of length 10 m is bent to form a circular loop of one turn. The magnetic moment produced by this circular loop is $\frac{n}{\pi}$ $A m^2$ if the current through the loop is 4 A. Then n is:

- Ans
- ☒ 1. 100
 - ☒ 2. 50
 - ☒ 3. 150
 - ☒ 4. 200

Question ID : 630680334395
Option 1 ID : 6306801300854
Option 2 ID : 6306801300853
Option 3 ID : 6306801300855
Option 4 ID : 6306801300856
Status : Answered
Chosen Option : 1

Q.31 Four objects A, B, C and D are moving along y-axis. Their position y (in m) changes with time t (in s) as below:

Object A: $y = 6.0 t - 2.0 t^3$

Object B: $y = 5.0 t^2 + 2.0 t^4$

Object C: $y = 2.0 + 5.0 t + 1.0 t^2$

Object D: $y = 1.0 + 3.0 t^3$

Which object is moving with a constant acceleration?

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

Question ID : 630680334341
Option 1 ID : 6306801300639
Option 2 ID : 6306801300640
Option 3 ID : 6306801300638
Option 4 ID : 6306801300637
Status : Answered
Chosen Option : 1

Q.32 If G , M_E , and R_E denote the universal gravitational constant, the mass of the earth, and the radius of the earth, respectively, then the acceleration of a body due to gravitation on the earth's surface, g , is given by:

Ans

✗ 1. $g = \frac{GR_E}{M_E}$

✗ 2. $g = \frac{GR_E}{M_E^2}$

✗ 3. $g = \frac{GM_E}{R_E}$

✓ 4. $g = \frac{GM_E}{R_E^2}$

Question ID : 630680334338

Option 1 ID : 6306801300627

Option 2 ID : 6306801300628

Option 3 ID : 6306801300625

Option 4 ID : 6306801300626

Status : Not Answered

Chosen Option : --

Q.33 If a pin is placed in front of the converging lens at a distance of 40 cm, the converging lens forms an image that is real, inverted, and equal to the size of the object. Then the power of the lens is:

Ans

✗ 1. -10.0 D

✗ 2. +10.0 D

✓ 3. +5.0 D

✗ 4. -5.0 D

Question ID : 630680334409

Option 1 ID : 6306801300912

Option 2 ID : 6306801300911

Option 3 ID : 6306801300909

Option 4 ID : 6306801300910

Status : Answered

Chosen Option : 4



Q.34 The magnetic moment of a current carrying coil is 20 A m^2 , the field at the centre of the coil is $4 \times 10^{-2} \text{ T}$ and the moment of inertia of the coil is 3.6 kg m^2 . If the coil is rotated by 90° , then the angular speed acquired by the coil is:

Ans

☒ 1. $\frac{4}{3} \text{ rad/s}$

☒ 2. $\frac{2}{3} \text{ rad/s}$

☒ 3. $\frac{1}{3} \text{ rad/s}$

☒ 4. $\frac{5}{3} \text{ rad/s}$

Question ID : 630680334393

Option 1 ID : 6306801300847

Option 2 ID : 6306801300846

Option 3 ID : 6306801300845

Option 4 ID : 6306801300848

Status : Not Answered

Chosen Option : --

Q.35 Suppose a current $I = I_0 \cos(\omega t + \phi)$ is passing through a LCR circuit. At resonance, the power dissipated in this LCR circuit is:

Ans

☒ 1. Minimum power

☒ 2. $\frac{\text{Maximum power}}{\sqrt{3}}$

☒ 3. Maximum power

☒ 4. $\sqrt{2} \times \text{Minimum power}$

Question ID : 630680334396

Option 1 ID : 6306801300860

Option 2 ID : 6306801300858

Option 3 ID : 6306801300859

Option 4 ID : 6306801300857

Status : Answered

Chosen Option : 4

Q.36 Two wires A and B of infinite length are placed at $x = 3 \text{ cm}$ and $x = -3 \text{ cm}$. Consider each of them is carrying a current of 2 A in an upward direction. The force per unit length experienced by A due to B is $\frac{2n}{3} \times 10^{-5} \text{ N}$. Then n is:

Ans

☒ 1. 1

☒ 2. 2

☒ 3. 4

☒ 4. 3

Question ID : 630680334394

Option 1 ID : 6306801300849

Option 2 ID : 6306801300850

Option 3 ID : 6306801300852

Option 4 ID : 6306801300851

Status : Answered

Chosen Option : 1



Q.37 A particle is moving in simple harmonic motion according to $x(t) = 1.5 \sin(6\pi t)$, where x is in metres and t is in seconds. Its maximum velocity (in m/s) is:

- Ans ☒ 1. 9π
☒ 2. 12π
☒ 3. 6π
☒ 4. 3π

Question ID : 630680334356
Option 1 ID : 6306801300699
Option 2 ID : 6306801300700
Option 3 ID : 6306801300698
Option 4 ID : 6306801300697
Status : Answered
Chosen Option : 1

Q.38 Consider a long solenoid of length 5 m, and radius 0.1 m, and it has 2000 turns per unit length. This solenoid is carrying a current of 2 A. The magnetic energy stored in this solenoid is $n\pi^2 \times 10^{-3}$ J. Then n is:

- Ans ☒ 1. 120
☒ 2. 200
☒ 3. 80
☒ 4. 160

Question ID : 630680334405
Option 1 ID : 6306801300894
Option 2 ID : 6306801300896
Option 3 ID : 6306801300893
Option 4 ID : 6306801300895
Status : Not Answered
Chosen Option : --

Q.39 If a dielectric medium of dielectric constant 16 is inserted in a parallel plate capacitor, then its capacitance changes to C with respect to that of the capacitance of the same parallel plate capacitor in free space C_0 . Then $\frac{C}{C_0}$ is:

- Ans ☒ 1. 16
☒ 2. 48
☒ 3. 32
☒ 4. 8

Question ID : 630680334367
Option 1 ID : 6306801300742
Option 2 ID : 6306801300744
Option 3 ID : 6306801300743
Option 4 ID : 6306801300741
Status : Answered
Chosen Option : 1

Q.40 Suppose a cell is connected across a high resistance voltmeter and it is showing a reading of 12.0 V. Now the terminals of the same cell is connected to a resistance of $6\ \Omega$ and the same voltmeter reading drops to 8 V. Then the internal resistance of the cell is:

Ans ☒ 1. $3\ \Omega$

☐ 2. $2\ \Omega$

☐ 3. $4\ \Omega$

☐ 4. $1\ \Omega$

Question ID : 630680334384

Option 1 ID : 6306801300811

Option 2 ID : 6306801300810

Option 3 ID : 6306801300812

Option 4 ID : 6306801300809

Status : Answered

Chosen Option : 2

Section : Chemistry

Q.1 The SI unit of viscosity coefficient is:

Ans ☒ 1. newton second per square metre

☐ 2. newton second per cube metre

☐ 3. newton second per nano metre

☐ 4. newton second per metre

Question ID : 630680333847

Option 1 ID : 6306801298663

Option 2 ID : 6306801298662

Option 3 ID : 6306801298664

Option 4 ID : 6306801298661

Status : Answered

Chosen Option : 1

Q.2 What are the shapes of BrF_5 and XeF_4 molecules, respectively?

Ans ☐ 1. Trigonal bipyramidal and square planar

☐ 2. Octahedral and tetrahedral

☐ 3. Octahedral and octahedral

☒ 4. Square pyramidal and square planar

Question ID : 630680333842

Option 1 ID : 6306801298643

Option 2 ID : 6306801298642

Option 3 ID : 6306801298641

Option 4 ID : 6306801298644

Status : Answered

Chosen Option : 3



Q.3 Cinnabar is the ore of _____.

- Ans
- ☒ 1. silver
 - ☒ 2. mercury
 - ☒ 3. cadmium
 - ☒ 4. platinum

Question ID : 630680333870
Option 1 ID : 6306801298753
Option 2 ID : 6306801298756
Option 3 ID : 6306801298754
Option 4 ID : 6306801298755

Status : Answered
Chosen Option : 2

Q.4 Which of the following decreasing orders is correct with respect to their electron gain enthalpy?

- Ans
- ☒ 1. $H > Li > Na > K > Rb$
 - ☒ 2. $Li > H > Na > K > Rb$
 - ☒ 3. $Li > Na > K > Rb > H$
 - ☒ 4. $Rb > K > Na > Li > H$

Question ID : 630680333874
Option 1 ID : 6306801298772
Option 2 ID : 6306801298771
Option 3 ID : 6306801298769
Option 4 ID : 6306801298770

Status : Answered
Chosen Option : 4

Q.5 What is the major product formed when methyl phenyl ether undergoes Friedel-Craft acylation?

- Ans
- ☒ 1. 4-methoxyacetophenone
 - ☒ 2. 2-methoxytoluene
 - ☒ 3. 4-methoxytoluene
 - ☒ 4. 2-methoxyacetophenone

Question ID : 630680333860
Option 1 ID : 6306801298716
Option 2 ID : 6306801298715
Option 3 ID : 6306801298714
Option 4 ID : 6306801298713

Status : Answered
Chosen Option : 2

Q.6 At equilibrium, the concentrations of $N_2 = 3.0 \times 10^{-3} \text{ M}$, $O_2 = 4.2 \times 10^{-3} \text{ M}$ and $NO = 2.8 \times 10^{-3} \text{ M}$ in a sealed vessel at 800K. What will be K_c for the reaction $N_2(g) + O_2(g) \rightleftharpoons 2NO(g)$?

Ans ☒ 1. 0.178

☒ 2. 0.622

☒ 3. 1.867

☒ 4. 2.471

Question ID : 630680333863

Option 1 ID : 6306801298728

Option 2 ID : 6306801298727

Option 3 ID : 6306801298725

Option 4 ID : 6306801298726

Status : Not Answered

Chosen Option : --

Q.7 Hydrogen gas is NOT evolved when a metal reacts with nitric acid. It is because nitric acid is a _____

Ans ☒ 1. strong oxidising agent

☒ 2. bleaching agent

☒ 3. strong reducing agent

☒ 4. denaturation agent

Question ID : 630680333872

Option 1 ID : 6306801298762

Option 2 ID : 6306801298764

Option 3 ID : 6306801298761

Option 4 ID : 6306801298763

Status : Answered

Chosen Option : 3

Q.8 Which of the following statements is INCORRECT with respect to oxidation and reduction reactions?

Ans ☒ 1. $ZnO + C \rightarrow Zn + CO$ undergoes redox reaction

☒ 2. $2Cu + O_2 \rightarrow 2CuO$ undergoes only oxidation

☒ 3. $CuO + H_2 \rightarrow Cu + H_2O$ undergoes only reduction

☒ 4.

$MnO_2 + 4HCl \rightarrow MnCl_2 + 2H_2O + Cl_2$ undergoes redox reaction

Question ID : 630680333868

Option 1 ID : 6306801298746

Option 2 ID : 6306801298748

Option 3 ID : 6306801298747

Option 4 ID : 6306801298745

Status : Answered

Chosen Option : 3



Q.9 Which of the following statement is correct with respect to gaseous state?

- Ans
- ☒ 1. Gases are low compressible
 - ☒ 2. Gases exert pressure equally in all directions
 - ☒ 3. Gases have much higher density than the solids and liquids
 - ☒ 4. The volume and the shape of gases are fixed

Question ID : 630680333845
Option 1 ID : 6306801298655
Option 2 ID : 6306801298653
Option 3 ID : 6306801298654
Option 4 ID : 6306801298656

Status : Answered
Chosen Option : 2

Q.10 What is the major product formed when but-2-yne reacts with water in the presence of warming with mercuric sulphate and dilute sulphuric acid at 333°K?

- Ans
- ☒ 1. Propan-2-one
 - ☒ 2. Ethan-1-al
 - ☒ 3. Butan-1-al
 - ☒ 4. Butan-2-one

Question ID : 630680333853
Option 1 ID : 6306801298687
Option 2 ID : 6306801298686
Option 3 ID : 6306801298685
Option 4 ID : 6306801298688

Status : Not Answered
Chosen Option : --

Q.11 Which of the following compounds undergoes thermal decomposition reaction to form quick lime and carbon dioxide?

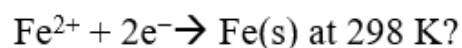
- Ans
- ☒ 1. Limestone
 - ☒ 2. Slacked lime
 - ☒ 3. Lead nitrate
 - ☒ 4. Backing soda

Question ID : 630680333866
Option 1 ID : 6306801298740
Option 2 ID : 6306801298738
Option 3 ID : 6306801298737
Option 4 ID : 6306801298739

Status : Answered
Chosen Option : 1



Q.12 What is the standard electrode potential (in V) of the reaction



- Ans
- ☒ 1. Equal to zero
 - ☒ 2. Greater than zero and less than one
 - ☒ 3. Less than zero
 - ☒ 4. Higher than two

Question ID : 630680333855
Option 1 ID : 6306801298695
Option 2 ID : 6306801298693
Option 3 ID : 6306801298694
Option 4 ID : 6306801298696
Status : Answered
Chosen Option : 1

Q.13 Butyl chloride, on reduction with zinc and dilute hydrochloric acid, gives ____.

- Ans
- ☒ 1. octane
 - ☒ 2. butane
 - ☒ 3. pentane
 - ☒ 4. methane

Question ID : 630680333849
Option 1 ID : 6306801298671
Option 2 ID : 6306801298670
Option 3 ID : 6306801298672
Option 4 ID : 6306801298669
Status : Answered
Chosen Option : 2

Q.14 The concentration of hydrogen ion in a sample of soft drink is 3.8×10^{-3} M. What is its pH?

- Ans
- ☒ 1. 2.42
 - ☒ 2. 4.22
 - ☒ 3. 0.86
 - ☒ 4. 1.89

Question ID : 630680333862
Option 1 ID : 6306801298723
Option 2 ID : 6306801298722
Option 3 ID : 6306801298724
Option 4 ID : 6306801298721
Status : Not Answered
Chosen Option : --

Q.15 What are the masses of proton and neutron (in u), respectively?

- Ans
- ☒ 1. 1.00238 and 1.00548
 - ☒ 2. 1.00727 and 1.00867
 - ☒ 3. 1.00548 and 1.00238
 - ☒ 4. 1.00988 and 1.00489

Question ID : 630680333838
Option 1 ID : 6306801298628
Option 2 ID : 6306801298625
Option 3 ID : 6306801298626
Option 4 ID : 6306801298627
Status : Answered
Chosen Option : 2

Q.16 Which of the following increasing orders is correct with respect to C-O bond length?

- Ans
- ☒ 1. Phenol < Methanol < Methoxymethane
 - ☒ 2. Methoxymethane < Methanol < Phenol
 - ☒ 3. Phenol < Methoxymethane < Methanol
 - ☒ 4. Methanol < Phenol < Methoxymethane

Question ID : 630680333858
Option 1 ID : 6306801298707
Option 2 ID : 6306801298708
Option 3 ID : 6306801298706
Option 4 ID : 6306801298705
Status : Answered
Chosen Option : 2

Q.17 Which of the following molecules has the highest dipole moment (in D)?

- Ans
- ☒ 1. NH_3
 - ☒ 2. H_2S
 - ☒ 3. NF_3
 - ☒ 4. CO_2

Question ID : 630680333841
Option 1 ID : 6306801298638
Option 2 ID : 6306801298639
Option 3 ID : 6306801298640
Option 4 ID : 6306801298637
Status : Answered
Chosen Option : 4

Q.18 What is the major product formed when benzene reacts with sodium metal in the presence of liquid ammonia?

- Ans
- ☒ 1. Cyclohexa-1,3-diene
 - ☒ 2. Cyclohexane
 - ☒ 3. Cyclohexa-1,4-diene
 - ☒ 4. Propane-1,3-dial

Question ID : 630680333851
Option 1 ID : 6306801298679
Option 2 ID : 6306801298680
Option 3 ID : 6306801298677
Option 4 ID : 6306801298678
Status : Not Answered
Chosen Option : --

Q.19 What is the major product formed when propyl magnesium bromide reacts with acetaldehyde?

- Ans
- ☒ 1. Pentan-2-ol
 - ☒ 2. Butan-2-ol
 - ☒ 3. Pentan-1-al
 - ☒ 4. Butan-1-al

Question ID : 630680333856
Option 1 ID : 6306801298700
Option 2 ID : 6306801298697
Option 3 ID : 6306801298698
Option 4 ID : 6306801298699
Status : Not Answered
Chosen Option : --

Q.20 Who was awarded Nobel Prize for Physics in 1906, for his theoretical and experimental investigations on the conduction of electricity by gases?

- Ans
- ☒ 1. Ernest Marsden
 - ☒ 2. Neils Bohr
 - ☒ 3. Ernest Rutherford
 - ☒ 4. JJ Thomson

Question ID : 630680333836
Option 1 ID : 6306801298619
Option 2 ID : 6306801298620
Option 3 ID : 6306801298617
Option 4 ID : 6306801298618
Status : Answered
Chosen Option : 1

Section : Mathematics

Q.1 Evaluate $\int \frac{\cos x}{\sin x + \cos x} dx$.

Ans

✓ 1. $\frac{1}{2}[x + \ln|\sin x + \cos x|] + c$

✗ 2. $\frac{1}{2}[x - \ln|\sin x - \cos x|] + c$

✗ 3. $\frac{1}{2}[x + \ln|\sin x - \cos x|] + c$

✗ 4. $\frac{1}{2}[x - \ln|\sin x + \cos x|] + c$

Question ID : 630680334033

Option 1 ID : 6306801299405

Option 2 ID : 6306801299408

Option 3 ID : 6306801299407

Option 4 ID : 6306801299406

Status : Not Answered

Chosen Option : --

Q.2 If the major and minor axes of an ellipse are 7 cm and 5 cm, find its area.

Ans

✗ 1. 74 cm^2

✓ 2. 110 cm^2

✗ 3. 70 cm^2

✗ 4. 35 cm^2

Question ID : 630680334061

Option 1 ID : 6306801299520

Option 2 ID : 6306801299518

Option 3 ID : 6306801299519

Option 4 ID : 6306801299517

Status : Answered

Chosen Option : 2

Q.3 Find the values of k for which the equation $x^2 - 4x + k = 0$ has distinct real roots.

Ans

✗ 1. $k = 4$

✓ 2. $k < 4$

✗ 3. $k > 4$

✗ 4. $k = 6$

Question ID : 630680334062

Option 1 ID : 6306801299521

Option 2 ID : 6306801299523

Option 3 ID : 6306801299522

Option 4 ID : 6306801299524

Status : Answered

Chosen Option : 2



Q.4 Find the value of $\sum_{r=0}^n 3^r {}^nC_r$.

- Ans
- ☒ 1. 3^n
 - ☒ 2. 9^n
 - ☒ 3. 5^n
 - ☒ 4. 4^n

Question ID : 630680334030
Option 1 ID : 6306801299393
Option 2 ID : 6306801299395
Option 3 ID : 6306801299396
Option 4 ID : 6306801299394
Status : Answered
Chosen Option : 1

Q.5 The smallest number by which $\sqrt{343}$ should be multiplied so as to get rational number is?

- Ans
- ☒ 1. $7\sqrt{7}$
 - ☒ 2. $\sqrt{343}$
 - ☒ 3. $\sqrt{7}$
 - ☒ 4. 7

Question ID : 630680334044
Option 1 ID : 6306801299450
Option 2 ID : 6306801299449
Option 3 ID : 6306801299451
Option 4 ID : 6306801299452
Status : Answered
Chosen Option : 3

Q.6 If α and β are the zero of the polynomials $fx=x^2+5x+k$ satisfying the relation $\alpha^2+\beta^2-\alpha\beta=22$, then find the value of k for this to be possible.

- Ans
- ☒ 1. 1
 - ☒ 2. 8
 - ☒ 3. 2
 - ☒ 4. 16

Question ID : 630680334046
Option 1 ID : 6306801299459
Option 2 ID : 6306801299460
Option 3 ID : 6306801299457
Option 4 ID : 6306801299458
Status : Answered
Chosen Option : 1



Q.7 A chord of a circle of radius $\sqrt{2}$ cm subtends a right angle at centre. Find the length of the chord (in cm).

- Ans
- ☐ 1. $\sqrt{2}$
 - ☒ 2. 2
 - ☐ 3. $3\sqrt{2}$
 - ☐ 4. 1

Question ID : 630680334052
Option 1 ID : 6306801299483
Option 2 ID : 6306801299484
Option 3 ID : 6306801299482
Option 4 ID : 6306801299481
Status : Answered
Chosen Option : 3

Q.8 Solve $e^{\left(\frac{dy}{dx}\right)} - e^{y+\sqrt{y}} = 0$

- Ans
- ☐ 1. $(1 - \sqrt{y}) = ce^x$
 - ☐ 2. $(\sqrt{y} - 1)^2 = ce^x$
 - ☒ 3. $(\sqrt{y} + 1)^2 = ce^x$
 - ☐ 4. $(1 + \sqrt{y}) = ce^x$

Question ID : 630680334040
Option 1 ID : 6306801299435
Option 2 ID : 6306801299433
Option 3 ID : 6306801299434
Option 4 ID : 6306801299436
Status : Answered
Chosen Option : 3

Q.9 Solve the inequalities in the following.

$$\frac{x}{4} < \frac{5x - 2}{3} - \frac{7x - 3}{5}$$

- Ans
- ☐ 1. $x < -4$
 - ☒ 2. $x > 4$
 - ☐ 3. $x < 2$
 - ☐ 4. $x < -2$

Question ID : 630680334028
Option 1 ID : 6306801299386
Option 2 ID : 6306801299387
Option 3 ID : 6306801299385
Option 4 ID : 6306801299388
Status : Answered
Chosen Option : 2

Q.10 Evaluate $(\sqrt{2} + 1)^6 + (\sqrt{2} - 1)^6$.

- Ans
- ☒ 1. $140\sqrt{2}$
 - ☒ 2. $58\sqrt{2}$
 - ☒ 3. 198
 - ☒ 4. 338

Question ID : 630680334031
Option 1 ID : 6306801299398
Option 2 ID : 6306801299399
Option 3 ID : 6306801299397
Option 4 ID : 6306801299400
Status : Answered
Chosen Option : 3

Q.11 Find the equation of a circle whose end points of any diameter are (2, -1) and (-2, 2).

- Ans
- ☒ 1. $x^2 + y^2 + y - 6 = 0$
 - ☒ 2. $x^2 + y^2 - x + 6 = 0$
 - ☒ 3. $x^2 + y^2 - y - 6 = 0$
 - ☒ 4. $x^2 + y^2 + x + 6 = 0$

Question ID : 630680334058
Option 1 ID : 6306801299508
Option 2 ID : 6306801299506
Option 3 ID : 6306801299505
Option 4 ID : 6306801299507
Status : Answered
Chosen Option : 3

Q.12 What is the value of k so that the line through (4, k) and (5, 6) is perpendicular to the line through (-1, 8) and (3, 12)?

- Ans
- ☒ 1. 8
 - ☒ 2. 1
 - ☒ 3. 7
 - ☒ 4. 0

Question ID : 630680334049
Option 1 ID : 6306801299469
Option 2 ID : 6306801299471
Option 3 ID : 6306801299470
Option 4 ID : 6306801299472
Status : Answered
Chosen Option : 3



Q.13 If $\text{HCF}(34, 289) = 17$, then $\text{LCM}(34, 289) = ?$

- Ans
- ☒ 1. 612
 - ☒ 2. 867
 - ☒ 3. 1156
 - ☒ 4. 578

Question ID : 630680334041
Option 1 ID : 6306801299437
Option 2 ID : 6306801299438
Option 3 ID : 6306801299440
Option 4 ID : 6306801299439

Status : Answered
Chosen Option : 4

Q.14 The diagonals of a quadrilateral ABCD bisect each other. If $\angle B = 135^\circ$, then $\angle A = ?$

- Ans
- ☒ 1. 50°
 - ☒ 2. 45°
 - ☒ 3. 35°
 - ☒ 4. 25°

Question ID : 630680334054
Option 1 ID : 6306801299491
Option 2 ID : 6306801299490
Option 3 ID : 6306801299489
Option 4 ID : 6306801299492

Status : Answered
Chosen Option : 2

Q.15 Evaluate $\int \frac{1}{(e^x + e^{-x})^2} dx$.

- Ans
- ☒ 1. $-\frac{1}{(e^{2x} + 1)} + c$
 - ☒ 2. $\frac{1}{2(e^x + e^{-x})} + c$
 - ☒ 3. $\frac{2}{(e^x + e^{-x})} + c$
 - ☒ 4. $-\frac{1}{2(e^{2x} + 1)} + c$

Question ID : 630680334036
Option 1 ID : 6306801299420
Option 2 ID : 6306801299417
Option 3 ID : 6306801299419
Option 4 ID : 6306801299418

Status : Not Answered
Chosen Option : --



Q.16 If $\sin\theta + \cos\theta = x$ and $\cos\theta - \sin\theta = y$, then $\tan 2\theta = ?$

Ans

✓ 1. $\frac{1}{2} \left(\frac{x}{y} - \frac{y}{x} \right)$

✗ 2. $\frac{1}{2} \left(\frac{y}{x} + \frac{x}{y} \right)$

✗ 3. $\frac{1}{4} \left(\frac{y}{x} + \frac{x}{y} \right)$

✗ 4. $\frac{1}{4} \left(\frac{x}{y} - \frac{y}{x} \right)$

Question ID : 630680334064

Option 1 ID : 6306801299529

Option 2 ID : 6306801299530

Option 3 ID : 6306801299532

Option 4 ID : 6306801299531

Status : Not Answered

Chosen Option : --

Q.17

Solve $\frac{dy}{dx} + \sqrt{\frac{1-y^2}{1-x^2}} = 0$

Ans

✗ 1. $x\sqrt{1-x^2} + y\sqrt{1-y^2} = c$

✓ 2. $x\sqrt{1-y^2} + y\sqrt{1-x^2} = c$

✗ 3. $x\sqrt{1+y^2} + y\sqrt{1+x^2} = c$

✗ 4. $x\sqrt{1+x^2} + y\sqrt{1+y^2} = c$

Question ID : 630680334037

Option 1 ID : 6306801299424

Option 2 ID : 6306801299422

Option 3 ID : 6306801299421

Option 4 ID : 6306801299423

Status : Answered

Chosen Option : 1



Q.18 If $7\sin\theta = 5$, Find the value of $\frac{\sec\theta + \tan\theta}{\sec\theta - \tan\theta} = ?$

- Ans
- ☒ 1. 6
 - ☐ 2. 1
 - ☐ 3. 8
 - ☐ 4. 2

Question ID : 630680334066
Option 1 ID : 6306801299539
Option 2 ID : 6306801299538
Option 3 ID : 6306801299540
Option 4 ID : 6306801299537
Status : Answered
Chosen Option : 1

Q.19 Find the equation of a circle whose centre is $(-3, 2)$ and area is 176 units^2 .

- Ans
- ☐ 1. $(x+3)^2 + (y-2)^2 = 49$
 - ☒ 2. $(x+3)^2 + (y-2)^2 = 56$
 - ☐ 3. $(x-3)^2 + (y+2)^2 = 56$
 - ☐ 4. $(x-3)^2 + (y+2)^2 = 49$

Question ID : 630680334059
Option 1 ID : 6306801299509
Option 2 ID : 6306801299511
Option 3 ID : 6306801299512
Option 4 ID : 6306801299510
Status : Answered
Chosen Option : 2

Q.20 For which value of k will the lines represented by the following pair of linear equations be parallel?

$$7x + 9y = 6, kx + 5y = 5$$

- Ans
- ☐ 1. 9
 - ☐ 2. $\frac{6}{5}$
 - ☒ 3. $\frac{35}{9}$
 - ☐ 4. 7

Question ID : 630680334047
Option 1 ID : 6306801299462
Option 2 ID : 6306801299464
Option 3 ID : 6306801299463
Option 4 ID : 6306801299461
Status : Answered
Chosen Option : 3

Section : English and GK

Q.1 The _____ is the second most polluted river in India, according to a Central Pollution Control Board (CPCB) November 2022 report tabled by the Union ministry of Jal Shakti.

- Ans
- ☒ 1. Mahanadi
 - ☒ 2. Sabarmati
 - ☒ 3. Yamuna
 - ☒ 4. Cooum

Question ID : 630680333811
Option 1 ID : 6306801298519
Option 2 ID : 6306801298520
Option 3 ID : 6306801298517
Option 4 ID : 6306801298518
Status : Answered
Chosen Option : 3

Q.2 Which of the following passes does NOT lie in Leh-Ladakh?

- Ans
- ☒ 1. Imis La Pass
 - ☒ 2. Umlingla Pass
 - ☒ 3. Jelep La Pass
 - ☒ 4. Aghil Pass

Question ID : 630680333821
Option 1 ID : 6306801298559
Option 2 ID : 6306801298557
Option 3 ID : 6306801298560
Option 4 ID : 6306801298558
Status : Answered
Chosen Option : 3

Q.3 According to Census 2011, which is the most literate Union Territory of India?

- Ans
- ☒ 1. Lakshadweep
 - ☒ 2. Puducherry
 - ☒ 3. Daman and Diu
 - ☒ 4. Jammu and Kashmir

Question ID : 630680333829
Option 1 ID : 6306801298589
Option 2 ID : 6306801298592
Option 3 ID : 6306801298591
Option 4 ID : 6306801298590
Status : Answered
Chosen Option : 2

Q.4 Which of the following bones is NOT located in the legs?

- Ans ☒ 1. Tibia
☒ 2. Patella
☒ 3. Tarsals
☒ 4. Carpals

Question ID : 630680333831
Option 1 ID : 6306801298598
Option 2 ID : 6306801298600
Option 3 ID : 6306801298599
Option 4 ID : 6306801298597
Status : Answered
Chosen Option : 3

Q.5 Atmiya Sabha was a philosophical discussion circle in India and was started by Ram Mohan Roy in _____, in Kolkata (then Calcutta).

- Ans ☒ 1. 1813
☒ 2. 1815
☒ 3. 1817
☒ 4. 1811

Question ID : 630680333817
Option 1 ID : 6306801298542
Option 2 ID : 6306801298543
Option 3 ID : 6306801298544
Option 4 ID : 6306801298541
Status : Not Answered
Chosen Option : --

Q.6 Satyashodhak Samaj (Truth-seekers' Society) was a social reform society founded by _____ in Pune, Maharashtra, on 24 September 1873.

- Ans ☒ 1. Vinoba Bhave
☒ 2. Dhondo Keshav Karve
☒ 3. Jyoti Rao Phule
☒ 4. Purushottam Kakodkar

Question ID : 630680333812
Option 1 ID : 6306801298522
Option 2 ID : 6306801298523
Option 3 ID : 6306801298521
Option 4 ID : 6306801298524
Status : Answered
Chosen Option : 1



Q.7 To which sport does Lakshya Sen, who was awarded the Arjuna Award on 30 November 2022 belong?

- Ans
- ☐ 1. Table tennis
 - ☐ 2. Shooting
 - ☒ 3. Badminton
 - ☐ 4. Chess

Question ID : 630680333806
Option 1 ID : 6306801298499
Option 2 ID : 6306801298500
Option 3 ID : 6306801298497
Option 4 ID : 6306801298498
Status : Answered
Chosen Option : 2

Q.8 Census 2021, the ensuing decadal Census would have been the _____ Census of India.

- Ans
- ☐ 1. 17th
 - ☒ 2. 16th
 - ☐ 3. 14th
 - ☐ 4. 15th

Question ID : 630680333825
Option 1 ID : 6306801298575
Option 2 ID : 6306801298573
Option 3 ID : 6306801298576
Option 4 ID : 6306801298574
Status : Answered
Chosen Option : 4

Q.9 बच्चों का सूखा रोग (Kwashiorkor) _____ की कमी के कारण होने वाला रोग है।

- Ans
- ☐ 1. विटामिन A
 - ☒ 2. प्रोटीन
 - ☐ 3. कैल्शियम
 - ☐ 4. आयर्न

Question ID : 630680333834
Option 1 ID : 6306801298612
Option 2 ID : 6306801298610
Option 3 ID : 6306801298609
Option 4 ID : 6306801298611
Status : Answered
Chosen Option : 2



Q.10 The Parmar dynasty was an Indian dynasty that ruled Malwa and surrounding areas in _____ India between the 9th and 14th centuries.

- Ans ☒ 1. West-central
☐ 2. East-central
☐ 3. North-central
☐ 4. South-central

Question ID : 630680333818
Option 1 ID : 6306801298545
Option 2 ID : 6306801298547
Option 3 ID : 6306801298546
Option 4 ID : 6306801298548
Status : Not Answered
Chosen Option : --

Q.11 Select the most appropriate meaning of the underlined idiom.
At the age of 75, he is fit as a fiddle and walks at least four kilometres every day.

- Ans ☐ 1. Determined
☐ 2. Strong-minded
☒ 3. Healthy
☐ 4. Knowledgeable

Question ID : 630680334645
Option 1 ID : 6306801301849
Option 2 ID : 6306801301850
Option 3 ID : 6306801301851
Option 4 ID : 6306801301852
Status : Answered
Chosen Option : 3

Q.12 Select the most appropriate option to fill in the blank.
My sister is currently studying _____, a study of speech sounds.

- Ans ☐ 1. semantics
☐ 2. linguistics
☒ 3. phonetics
☐ 4. philology

Question ID : 630680334642
Option 1 ID : 6306801301840
Option 2 ID : 6306801301839
Option 3 ID : 6306801301837
Option 4 ID : 6306801301838
Status : Answered
Chosen Option : 3

Q.13 Select the most appropriate proverb for the given situation.
A blind man wanted to cross the road. Some people saw him, talked about him, but nobody helped him. Siddharth, a twelve-year-old boy, who saw the blind man, came forward and holding his hand crossed the road.

- Ans ☒ 1. Actions speak louder than the words.
 ☐ 2. Look before you leap.
 ☐ 3. God helps those who help themselves.
 ☐ 4. Good things come to those who wait.

Question ID : 630680334649
Option 1 ID : 6306801301867
Option 2 ID : 6306801301866
Option 3 ID : 6306801301868
Option 4 ID : 6306801301865
Status : Answered
Chosen Option : 1

Comprehension:
Read the following passage and answer the questions that follows.

Keeladi is a tiny hamlet in the Sivaganga district in south Tamil Nadu. It is located along the Vaigai river. The excavations here from 2015 prove that an urban civilisation existed in Tamil Nadu as far back as 800 BCE on the banks of the Vaigai river. Tamil Nadu state Department of Archaeology affirms that Keeladi has all the characteristics of an urban civilisation, with brick structures, luxury items and proof of internal and external trade. It comes across as an industrious and advanced civilisation and has given evidence of urban life and settlements in Tamil Nadu during the Early Historic Period. Academics have termed it as the Vaigai Valley Civilisation.

In the eight rounds of excavations, over 18,000 artefacts have been unearthed from the site. Unearthing of heaps of pottery suggest the existence of a pottery making industry, mostly made of locally available raw materials. Spindle whorls, copper needles, terracotta seal, hanging stones of the yarn, terracotta spheres and earthen vessels to hold liquid suggest various stages of a weaving industry. There also existed a dyeing industry and a glass bead industry.

Gold ornaments, copper articles, semi-precious stones, shell bangles, ivory bangles and ivory combs reflect the artistic, culturally rich and prosperous lifestyle of the Keeladi people. Agate and carnelian beads suggest import through commercial networks while terracotta and ivory dice, gamesmen and evidence of hopscotch have been unearthed revealing their pastime hobbies.

SubQuestion No : 14

Q.14 Findings of spindle whorls, copper needles and hanging stones of the yarn indicate the existence of which of the following?

- Ans ☐ 1. An urban civilisation
 ☐ 2. Trade network
 ☒ 3. Weaving industry
 ☐ 4. Glass industry

Question ID : 630680334664
Option 1 ID : 6306801301917
Option 2 ID : 6306801301920
Option 3 ID : 6306801301919
Option 4 ID : 6306801301918
Status : Answered
Chosen Option : 3

Comprehension:

Read the following passage and answer the questions that follows.





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SubQuestion No : 15

Q.15 Which of the following statements is NOT true about the People of Vaigai Valley Civilisation according to the passage?

- Ans**  1. They carried out import and export of things.
-  2. They had a rich lifestyle.
-  3. They were hard-working people.
-  4. They lived in small villages.

Question ID : 630680334666
Option 1 ID : 6306801301928
Option 2 ID : 6306801301925
Option 3 ID : 6306801301926
Option 4 ID : 6306801301927
Status : Answered
Chosen Option : 4



Comprehension:

Read the following passage and answer the questions that follows.

Keeladi is a tiny hamlet in the Sivaganga district in south Tamil Nadu. It is located along the Vaigai river. The excavations here from 2015 prove that an urban civilisation existed in Tamil Nadu as far back as 800 BCE on the banks of the Vaigai river. Tamil Nadu state Department of Archaeology affirms that Keeladi has all the characteristics of an urban civilisation, with brick structures, luxury items and proof of internal and external trade. It comes across as an industrious and advanced civilisation and has given evidence of urban life and settlements in Tamil Nadu during the Early Historic Period. Academics have termed it as the Vaigai Valley Civilisation.

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SubQuestion No : 16

Q.16 Which of the following findings tell us how the people of Vaigai Valley Civilisation pass their free time?

- Ans**
- ☒ 1. Shell bangles, ivory bangles and ivory combs
 - ☒ 2. Terracotta spheres and earthen vessels
 - ☒ 3. Ivory and terracotta dice, gamesmen and hopscotch
 - ☒ 4. Agate and carnelian beads

Question ID : 630680334665
Option 1 ID : 6306801301923
Option 2 ID : 6306801301922
Option 3 ID : 6306801301924
Option 4 ID : 6306801301921
Status : Answered
Chosen Option : 3



Comprehension:

Read the following passage and answer the questions that follows.

Keeladi is a tiny hamlet in the Sivaganga district in south Tamil Nadu. It is located along the Vaigai river. The excavations here from 2015 prove that an urban civilisation existed in Tamil Nadu as far back as 800 BCE on the banks of the Vaigai river. Tamil Nadu state Department of Archaeology affirms that Keeladi has all the characteristics of an urban civilisation, with brick structures, luxury items and proof of internal and external trade. It comes across as an industrious and advanced civilisation and has given evidence of urban life and settlements in Tamil Nadu during the Early Historic Period. Academics have termed it as the Vaigai Valley Civilisation.

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SubQuestion No : 17

Q.17 The passage is mainly about:

- Ans
- ☒ 1. the eight rounds of excavations at Keeladi
 - ☒ 2. the discovery of an ancient urban civilisation at Keeladi
 - ☒ 3. various artefacts found in the excavations at Keeladi
 - ☒ 4. trade network of Keeladi people in ancient times.

Question ID : 630680334663
Option 1 ID : 6306801301913
Option 2 ID : 6306801301914
Option 3 ID : 6306801301915
Option 4 ID : 6306801301916
Status : Answered
Chosen Option : 2

Q.18 Select the most appropriate option to fill in the blank.
The rabbit darted into the _____ hole to save itself from the wolf.

- Ans
- ☒ 1. more near
 - ☒ 2. nearest
 - ☒ 3. nearer
 - ☒ 4. near

Question ID : 630680334639
Option 1 ID : 6306801301828
Option 2 ID : 6306801301827
Option 3 ID : 6306801301826
Option 4 ID : 6306801301825
Status : Answered
Chosen Option : 2

Q.19 Select the most appropriate ANTONYM of the given word.
Impetus

- Ans
- ☒ 1. Stimulus
 - ☐ 2. Hindrance
 - ☒ 3. Fillip
 - ☒ 4. Incentive

Question ID : 630680334651
Option 1 ID : 6306801301874
Option 2 ID : 6306801301873
Option 3 ID : 6306801301875
Option 4 ID : 6306801301876
Status : Answered
Chosen Option : 3

Q.20 Select the most appropriate synonym of the given word.
Assail

- Ans
- ☒ 1. Praise
 - ☒ 2. Yield
 - ☐ 3. Attack
 - ☒ 4. Help

Question ID : 630680334655
Option 1 ID : 6306801301890
Option 2 ID : 6306801301891
Option 3 ID : 6306801301889
Option 4 ID : 6306801301892
Status : Answered
Chosen Option : 3