



भारतीय विमानपत्तन प्राधिकरण

AIRPORTS AUTHORITY OF INDIA

राजीव गांधी भवन, सफदरजंग हवाई अड्डा, नई दिल्ली - 110003 Rajiv Gandhi Bhavan, Safdarjung Airport, New Delhi - 110003 विज्ञापन सं. 7/2015 के तहत भर्ती हेतु ऑनलाईन परीक्षा /ONLINE EXAMINATION FOR RECRUITMENT AGAINST ADVT. NO. 7/2015

Section: Physics and Mathematics

Q.1 The tangent and normal at any point of the curve $x = ae^{\theta}(\sin\theta - \cos\theta), y = ae^{\theta}(\sin\theta + \cos\theta)$ are

 \times 1. at a difference of $\frac{\pi}{2}$ from origin

× 2. at a difference of cos θ from origin

√ 3 equidistant from the origin

★ 4 at a difference of sinθ from origin

Q.2 The thickness of a soap film (n = 1.46) is 300 nm. What wavelength of light in the visible region can be used to constructively reflect off the film?

Ans X 1. 620 nm

✓ 2. 584 nm

X 3. 628 nm

X 4. 410 nm

The solution of the differential equation $\frac{d^2y}{dx^2} - 3\frac{dy}{dx} + 2y = e^{3x}$ is given by

 $x = c_1 e^{-x} + c_2 e^{-2x} + \frac{1}{2} e^{3x}$

$$\checkmark$$
 2. $y = c_1 e^x + c_2 e^{2x} + \frac{1}{2} e^{3x}$

$$X$$
 3. $y = c_1 e^{-x} + c_2 e^{2x} + \frac{1}{2} e^{3x}$

 $x = c_1 e^x + c_2 e^{-2x} + \frac{1}{2} e^{3x}$

Solution of differential equation $p = \sin(y - x p)$ is

 $x = x + \sin^{-1} c$ Ans

$$x = \frac{c}{x} + \sin^{-1} c$$

 $\sqrt{3}$. $y = cx + \sin^{-1} c$

Question ID: 826662153 Status: Answered

Chosen Option: 3

Question ID: 826662129 Status : Answered

Chosen Option: 1

Question ID: 826662159 Status Answered

Chosen Option : 4

Question ID: 826662158 Status: Answered

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 \times 4. $y = cx + \sin c$

Q.5 Every open set of real numbers is the union of



countable collection of disjoint open intervals

uncountable collection of disjoint closed intervals

countable collection of disjoint closed intervals

X 4.

uncountable collection of disjoint open intervals

The value of $\int \frac{dx}{(1+e^x)(1+e^{-x})}$ is equal to:

$$\times$$
 1. $-\frac{1}{(1+e^{-x})}$ + c

$$\checkmark 2. -\frac{1}{(1+e^x)} + c$$

$$\times 3. \frac{1}{(1+e^x)} + c$$

$$\times$$
 4. $\frac{1}{(1+e^{-x})}$ + c

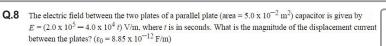
The value of $\iint_{-\infty}^{\infty} \int_{-\infty}^{\infty} (x+y+z) dx dy dz$ is:

Ans X 1. -1



3. 0

X 4. 2



Ans X 1. 8.46 x 10⁻⁹ A

✓ 2. 1.77 x 10⁻⁸ A

X 3. 5.95 x 10⁻⁷ A

X 4. 4.54 x 10⁻⁶ A

Q.9 The Curie temperature for cobalt is:

Ans X 1. 1043 K

X 2. 627 K

X 3. 3862 K

4. 1388 K

Question ID: 826662161

Status: Answered

Chosen Option

Question ID: 826662181

Chosen Option : F

Status: Answered

Question ID : 826662177

Status : Answered

Chosen Option:

Question ID: 826662143 Status: Answered

Chosen Option :

Question ID: 826662148

Status: Answered



Q.10 The asymptotes of the curve $x^2y^2 = a^2(x^2 + y^2)$

1 forms a square of side a/2

X 2 forms a square of side a

X 3. forms a square of side 3a/2

4 forms a square of side 2a

Q.11 As soon as a new variable is found by iteration, it is used immediately in the linear equations, this method is called:

Ans

X 1 Relaxation Method

2. Gauss Seidal Method

3 Gauss Jordan Method

4. Jacobi Method

Q.12 The intensity of the central maxima in the diffraction pattern due to a double slit is n times that of the central maxima due to diffraction at a single slit. Here n is:

Ans

X 2. 2

X 1. 3

Question ID: 826662133 Status: Answered Chosen Option

Question ID: 826662155 Status: Answered

Question ID: 826662169

Status: Answered

Chosen Option

Chosen Option:

Q.13 A family of planes of spacing 0.2518 nm of NaCl crystal reflects a beam of X-ray in first order at an angle

Ans

✓ 1. 0.2518 nm

× 2. 0.1259 nm

X 3. 0.3778 nm

X 4. 0.5036 nm

Q.14 The solution of xp + yq = z is

Ans (x, y) = 0

X 2. $f(x^2, y^2) = 0$

 \times 3. f(xy, yz) = 0

 \checkmark 4. $f\left(\frac{x}{v}, \frac{y}{z}\right) = 0$

Q.15 A plane polarized electromagnetic wave is travelling in free space along + x direction. The amplitude of Its electric field is $E_0 = 240 \text{ N/C}$ and its frequency is 150 MHz. The magnetic field of the wave can be written as

Ans

B = { $(800 \text{ nT}) \sin [(3.14 \text{ rad/m}) x + (9.42 \text{ x} 10^8 \text{ rad/s}) t]} k$



B = { $(800 \text{ nT}) \sin [(3.14 \text{ rad/m}) x - (9.42 \text{ x} 10^8 \text{ rad/s}) t]} k$



B = { $(240 \text{ nT}) \sin [(2.09 \text{ rad/m}) x - (6.27 \text{ x } 10^8 \text{ rad/s}) t]} k$

X 4.

B = { $(240 \text{ nT}) \sin [(2.09 \text{ rad/m}) x + (6.27 \text{ x } 10^8 \text{ rad/s}) t]} k$

Question ID: 826662140 Status: Answered

Chosen Option #

Question ID: 826662160

Status: Answered

Question ID: 826662145

Status: Answered

Chosen Option



Q.16 Interference fringes are observed with a biprism of refracting angle 2° and refractive index 1.5 on a screen 100 cm away from it. If the distance betwee 0.10 mm, the wavelength of light used is: en the source and the biprism is 20 cm and the fringe width is

Ans X 1. 5710 Å

X 2. 5900 Å

X 3. 5630 Å

✓ 4. 5820 Å

Q.17 If $u = \sin^{-1}(x/y) + \tan^{-1}(y/x)$ then $x \frac{\partial u}{\partial x} + y \frac{\partial u}{\partial y}$ is equal to

Ans X 1. u/2

X 2. 2u

√ 3. Zero

X 4. u

Q.18

The value of $\underset{x \to \pi/2}{Lt} \frac{\log \sin x}{(\pi/2 - x)^2}$ is

Ans X 1. 0

X 2. 1/2

√ 3. -1/2

X 4. -2

Q.19 A proton with rest mass of $1.67 \times 10^{-27} \, \text{kg}$ moves in an accelerator with a speed of $0.6 \, \text{c}$. Its total energy is

Ans
✓ 1. 1.88 x 10⁻¹⁰ J

× 2. 5.46 x 10⁻¹⁰ J

X 3. 0.92 x 10⁻¹⁰ J

X 4. 3.42 x 10⁻¹⁰ J

Q.20 Given -x + y = 0

$$-x-2y+3z=0$$

$$2x + y - 3z = 0$$

then:

Ans X = z, y=0

 \times 2. y = z, x = 0

X = y, 0 = z

 \checkmark 4. x = y = z

Q.21 Considering four subintervals, the value of $\int_{a}^{1} \frac{1}{1+x} dx$ by Trapezoidal rule is:

Ans 🗸 1. 0.6970

X 2. 0.6870

X 3. 0.6677

X 4. 0.3597

Question ID: 826662131

Status: Answered

Chosen Option 👺

Question ID: 826662154

Status: Answered

Chosen Option

Question ID: 826662156

Status: Answered

Chosen Option : F

Question ID: 826662127

Status: Answered

Chosen Option:

Question ID: 826662167

Status: Answered

Chosen Option : //

Question ID: 826662170 Status: Answered



Q.22 The value of $\int_{C} \frac{3z+1}{z(2z+1)} dz$, where C is the circle |z|=1 is:

Ans X 1. -4

2. 3πi

X 3. 4

 \times 4. $2\pi i$

Q.23 The time period of a pendulum is 2.0 s in a stationary inertial frame of reference. Its period measured by an observer moving at a speed of 0.6 c with respect to the inertial frame of reference will be

Ans

X 1 1.6 s

X 2. 3.3 s

X 3. 1.2 s

✓ 4. 2.5 s

Question ID: 826662125 Status: Answered

Question ID: 826662175 Status: Answered

Chosen Option : F

Chosen Option

Q.24

 $\lim_{n\to\infty}\frac{1+2+3+...+n}{n^2}$ is equivalent to

Ans X 1. 0

X 2. ∞

X 3. 1

4. 1/2

Question ID: 826662162

Status: Answered

Chosen Option :

Q.25 Light of wavelength 5800 Å is incident normally on a slit of width 0.20 mm. Diffraction pattern is observed on screen 2 m away from the slit. From the central bright fringe, the distance of the first dark fringe on either side is

Ans

X 1 2.4 mm

✓ 2. 5.8 mm

X 3. 6.4 mm

X 4. 1.2 mm

Question ID: 826662132

Status: Answered

Chosen Option

Q.26 The quantum mechanical model of the hydrogen atom requires that if the orbital quantum number is 4, the number of different permitted orbital magnetic quantum numbers will be

Ans

× 1 seven

X 2. three

√ 3. nine

X 4. four

Question ID: 826662151 Status: Answered

Chosen Option:

Q.27 Frame S' moves relative to frame S at speed of 2.4 x 108 m/s in the direction of increasing x. An object is fired in frame S' at a speed of 1.8 x 108 m/s in the direction of increasing x'. The speed of the object according to an observer in frame S is

Ans

1.2 x 10⁸ m/s

× 2. 2.0 x 10⁸ m/s

✓ 3. 2.8 x 10⁸ m/s

X 4. 1.6 x 10⁸ m/s

Question ID: 826662126

Status: Answered

Chosen Option :

Q.28 If A and B are symmetric matrices, then AB are symmetric if:

Ans

√ 1. AB = BA

X 2. AB < BA

Question ID: 826662165 Status: Answered



X 3. AB > BA

X 4. AB ≠ BA

Q.29 The only function among the following, that is analytic, is:

Ans
$$\times$$
 1. $f(z) = \text{Re}(z)$

X 2. $f(z) = \overline{z}$

 \times 3. f(z) = Im(z)

 \checkmark 4. $f(z) = \sin(z)$

Question ID: 826662173 Status: Answered

Chosen Option :

Q.30 The integrating factor of the differential equation

$$(y\log y)dx + (x - \log y)dy = 0_{is}$$

X 2. 1/x

X 3. -1/y

X 4. -1/x

Question ID: 826662157

Status: Answered

Chosen Option

Q.31 According to Einstein's prediction, which of the following happens to the time interval between two events occurring in an inertial frame of reference as the frame's velocity with respect to the observer increases?

Ans

Interval becomes zero as velocity equals half the speed of light

Question ID: 826662122 Status: Answered

Chosen Option : 6

2 Interval remains constant

√ 3. Interval increases

4 Interval decreases

Q.32 The volume formed by revolution of loop of curve $y^2(a+x) = x^2(3a-x)$ about the x axis is:

$$\sqrt{2} \pi a^3 (8 \log 2 - 3)$$

$$\times$$
 3. $\pi a^3 (-8 \log 2 + 3)$

 \times 4. $\pi a^3 (8 \log 2 + 3)$

Question ID: 826662178

Status: Answered

Chosen Option 7

 $\textbf{Q.33} \quad \text{The relativistic mass of a particle moving with a speed of } 2.0 \times 10^8 \, \text{m/s in an accelerator is found to be}$ 2.4×10^{-26} kg. The rest mass of the particle is: ($c = 3.0 \times 10^8$ m/s)

Ans

$$\checkmark$$
 1.79 x 10⁻²⁶ kg

 \times 2. 0.87 x 10⁻²⁶ kg

 \times 3. 1.21 x 10⁻²⁶ kg

 \times 4 0.48 x 10⁻²⁶ kg

Question ID: 826662123

Status: Answered

Chosen Option 🥦

Q.34 The series $\sum_{n=0}^{\infty} (2x)^n$ converges if:

Ans
$$X_{1.-1 \le x \le 1}$$

 $x = 2 \cdot -\frac{1}{2} \le x \le \frac{1}{2}$

Question ID: 826662164

Status: Answered



 $\sqrt{3}$. $-\frac{1}{2} < x < \frac{1}{2}$

 \times 4. -2 < x < 2

Q.35

For the function $f(z) = \sin\left(\frac{1}{z}\right)$, z = 0 is a:

Ans X 1 removable singularity

X 2. simple pole

X 3. branch point

4 essential singularity

Q.36 Two parallel plates (each of area 200 cm²) of a capacitor are given equal and opposite charges of magnitude 1.78 μ C. The space between the plates is filled with a dielectric. If the electric field in the dielectric is $1.5 \times 10^6 \, \mathrm{V/m}$, what will be the magnitude of charge induced on each dielectric plate? $(\epsilon_0 = 8.85 \text{ x } 10^{-12} \text{ F/m})$

Ans

1. 1.51 μC

× 2. 1.28 μC

X 3. 0.52 μC

× 4. 0.84 μC

Q.37 Light of wavelength 450 nm is incident on a metal target (work function = 1.8 eV) in a phototube. What is the value of stopping potential in this case? ($h = 6.63 \times 10^{-34} \text{ J s}, c = 3 \times 10^8 \text{ m/s}, 1 \text{ eV} = 1.6 \times 10^{-19} \text{ J}$)

Ans

X 1. 4.56 V

✓ 2. 0.96 V

X 3. 2.76 V

X 4. 0.56 V

Q.38 The length of a spaceship is measured to be exactly one-third its length at rest. The speed of the spaceship relative to the ground observer is:

Ans X 1 0.487 c

✓ 2. 0.943 c

X 3. 0.764 c

X 4. 0.254 c

Q.39 X-rays of wavelength of 0.4500 nm undergo Compton scattering from free electrons in carbon If photons are scattered at 60° relative to the incident rays, what percentage of initial X-ray photon energy is transferred to an electron in such a scattering?

Ans

X 1 0.56 %

X 2. 1.2 %

√ 3. 0.27 %

X 4. 0.81 %

Q.40 In solving ordinary differential equation y' = 2x, y(0) = 0 using Euler's method, the iterates $y_n, n \in N$ satisfy:

Ans $\chi_n = 2x_n$

 $x = x_n^2$

 $y_n = x_n x_{n-1}$

Question ID: 826662176

Status: Answered

Chosen Option 🛹

Question ID: 826662146

Status: Answered

Chosen Option 🖊

Question ID: 826662149 Status: Answered

Chosen Option:

Question ID: 826662124

Status: Answered

Chosen Option :

Question ID: 826662142

Status: Answered

Chosen Option

Question ID: 826662172

Status: Answered



X 4. $y_n = x_n + x_{n-1}$

Q.41 The minimum X-ray wavelength produced in a tube is 13.5×10^{-12} m. Through what potential electrons are accelerated in order to generate these rays?

 $(h = 6.63 \times 10^{-34} \text{ J s}, c = 3 \times 10^8 \text{ m/s}, 1 \text{ eV} = 1.6 \times 10^{-19} \text{ J})$

Ans X 1. 46000 V

X 2. 75000 V

X 3. 33000 V

√ 4. 92080 V

Q.42 A satellite is powered by a small nuclear generator that puts out 15W. How much mass is converted into energy in 10 years lifespan of the generator?

Ans

X 1. 15.6 g

X 2. 15.6 kg

X 3. 53 g

🗸 4. 53 μg

Q.43 The position of a particle is measured with an uncertainty of 6.6×10^{-10} m. What is the minimum uncertainty in any simultaneous measurement of the momentum of the particle? ($h = 6.63 \times 10^{-34} \text{ J s}$)

Ans

 $\sqrt{1.1.6 \times 10^{-25}}$ kg m/s

 \times 2. 3.2 x 10⁻²³ kg m/s

 \times 3. 4.6 x 10⁻²⁴ kg m/s

 \times 4. 5.8 x 10⁻²² kg m/s

Q.44

The value of integral $\int_{0}^{\pi/2} \log(\tan x) dx$ is:

 \times 1. $\frac{\pi}{2}\log 2$

× 2. -π log 2

× 3. π log 2

4. 0

Q.45 Let A be a matrix of order m X n and R is non-singular matrix of order n, then:

Ans

X 1 Rank (RA) ≤ Rank (A)

√ 2 Rank (RA) = Rank (A)

X 3. Rank (RA) ≥ Rank (A)

X 4. Rank (RA) ≠ Rank (A)

Q.46 Light is incident normally on a diffraction grating having 5000 lines/cm. Second order line is observed at an angle of 30°. What is the wavelength of light?

Ans X 1. 6000 Å

X 2. 5800 Å

X 3. 4000 Å

✓ 4. 5000 Å

Question ID: 826662150

Status: Answered

Chosen Option :

Question ID: 826662128

Status: Answered

Chosen Option 😭

Question ID: 826662137

Status: Answered

Chosen Option

Question ID: 826662179

Status: Answered

Chosen Option

Question ID: 826662166

Status: Answered

Chosen Option: 4

Question ID: 826662134

Status: Answered





Q.47 The blue light from the sky has been polarised by: Question ID: 826662136 Status: Answered Ans × 1 reflection Chosen Option : 1 ✓ 2. scattering X 3. selective absorption X 4. double refraction Q.48 If vector space V have dimension dimV = n and let B and B' are two basis of V then: Question ID: 826662168 X 1. B and B' have less than n elements Status: Answered ✓ 2. B and B` have same number of elements n Chosen Option : 5 B and B' will have distinct number of elements A B and B' have more than n elements **Q.49** If $f(x) = x^m Sin(1/x)$, $x \ne 0$, f(0) = 0 then the minimum value of m for which f is Question ID: 826662152 derivable at x=0 and also $\frac{df}{dx}$ is continuous at x= 0 is Status: Answere Ans X 1. m=1 Chosen Option X 2. m=4 X 3. m=2 √ 4. m=3 **Q.50** The points which represents the root of the equation $(z+1)^n - z^n = 0$ lie on: Question ID: 826662174 Ans X 1 a straight line Status: Answered Chosen Option √ 2. a pair of straight lines X 3. a parabola X 4 a circle **Q.51** X-rays of wavelength of 0.0650 nm undergo Compton scattering from free electrons in a target. What is the wavelength of photons scattered at 90° relative to the incident rays? ($h = 6.63 \times 10^{-34} \, \text{J s}$, Question ID: 826662141 $m_e = 9.11 \times 10^{-31} \text{ kg}, c = 3 \times 10^8 \text{ m/s})$ Status: Answered Ans X 1. 0.0687 nm Chosen Option × 2. 0.0024 nm ✓ 3. 0.0674 nm X 4. 0.0626 nm Q.52 A 20 cm long tube containing 15% sugar solution rotates the plane of polarization of light by 21°. The specific rotation of sugar solution is: Question ID: 826662135 Ans Status: Answered X 1 64° Chosen Option ✓ 2. 70° X 3. 58° X 4. 49° **Q.53** A proton ($m = 1.67 \times 10^{-27} \text{ kg}$) is moving at a speed of 6.0 x 10^5 m/s . What is its de Broglie wavelength? Question ID: 826662138 ✓ 1. 6.62 x 10⁻¹³ m Ans Status: Answered Chosen Option: 4

 \times 2. 2.28 x 10⁻¹³ m

 \times 3. 8.93 x 10⁻¹³ m

X 4. 1.14 x 10⁻¹³ m

Q.54 If one root of the equation f(x) = 0 is near to x_0 , then the first approximation of this root as calculated by Newton Raphson method is the abscissa of the point, where the following straight line intersects the x-

Ans

the straight line through the point $(x_0, y = f(x_0))$ having the gradient $\frac{1}{f'(x_0)}$

tangent to the curve y = f(x) at the point $(x_0, y = f(x_0))$

 \times 3. Passing through the point $(x_0, y = f(x_0))$

normal to the curve y = f(x) at the point $(x_0, y = f(x_0))$

Q.55 In a Newton's rings experiment, light of wavelength λ and a lens of radius of curvature R are used. The radius of 5^{th} bright ring is n times the radius of the 2nd bright ring. Then n is:

Ans

 $\times 1.\sqrt{2}$

√ 2. √3

X 3. √5

X 4. √7

Q.56 A necessary condition for a series $\sum u_n$ to converge is that

Ans $\sqrt{1}$ 1. $u_n \to 0$ as $n \to \infty$

 \times 2. $u_n \rightarrow 2$ as $n \rightarrow \infty$

 \times 3. $u_n \to \infty$ as $n \to \infty$

 \times 4. $u_n \rightarrow 1$ as $n \rightarrow \infty$

If $I_n = \int_{1}^{\pi/4} \tan^n \theta d\theta$ then the following reduction formula exists:

 \checkmark 1. $I_n + I_{n-2} = \frac{1}{n+1}$

 $\sum 2 I_n + I_{n-2} + \frac{1}{n+1} = 0$

X 3. $I_n - I_{n-2} = \frac{1}{n+1}$

X 4. $I_n - I_{n-2} + \frac{1}{n+1} = 0$

Q.58 A magnetic field of 3.6T is applied to a paramagnetic gas. The atoms of the gas have magnetic dipole moment of 4.5×10^{-23} J/T. At what temperature, will the mean translational kinetic energy of an atom of the gas be equal to the energy required to change the alignment of atom's magnetic dipole from anti-parallel (to the magnetic field) (Boltzmann constant = 1.38×10^{-23} J/K)?

Ans X 1. 0.82 K

X 2. 1.74 K

X 3. 300 K

Question ID: 826662171

Status: Answered

Chosen Option

Question ID: 826662130

Status: Answered

Chosen Option .

Question ID: 826662163 Status: Answered

Chosen Option :

Question ID: 826662180

Status: Answered

Chosen Option :#

Question ID: 826662147

Status: Answered





√ 4. 15.7 K Q.59 The Poynting vector of an electromagnetic wave in vacuum is Question ID: 826662144 $S = \{(120 \text{ W/m}^2) \sin^2 [(8.0 \text{ rad/m}) \text{ z} + (2.4 \text{ x} 10^9 \text{ rad/s}) t]\} \text{ k.}$ Status: Answered What is the frequency of the wave? Chosen Option : Ans 🗸 1. 382 MHz X 2. 172 MHz X 3. 241 MHz X 4. 54.6 MHz Q.60 A ruby laser delivers a 10 ns pulse of 1 MW average power. If all the photons are of the same wavelength Question ID: 826662139 694.3 nm, how many photons are contained in the pulse? Ans \checkmark 1.3.5 x 10¹⁶ Status: Answered Chosen Option × 2. 6.2 x 10¹⁶ X 3. 2.6 x 10¹⁵ X 4. 4.0 x 10¹⁴ Section: English Language Q.1 Select the word that is closest in meaning to the word in capitals. Question ID: 826662182 Status: Answered Ans 1. Short Chosen Option : × 2. Small X 3. Little X 4. Limited Q.2 Select the phrase that best expresses the meaning of the underlined idiom. Question ID: 826662186 I tried to be pleasant to her but she gave me the cold shoulder. Status: Answered Ans √ 1. knocked me down Chosen Option : × 2. insulted me X 3. ignored me 4. slapped me Q.3 Select the phrase/clause that best completes the sentence. Question ID: 826662200 I stopped on my way some money from the ATM. Status: Answered Ans X 1 for withdrawing Chosen Option : 2 to be withdrawing X 3. to withdraw X 4. withdrew Q.4 Select the word that is opposite in meaning to the word in capitals. Question ID: 826662183 VANITY Status: Answered Ans X 1. Generosity Chosen Option: 1 X 2. Hostility





	✓ 3. Humility		
	× 4. Pride		
Q.5	Given below are four-sentence paragraphs (S1-S4). S1 and S4 are given. From the options (P, Q, R) choose two sentences which can be S2 and S3. S1: Dodo bird is one of the first things we think of when we hear the word 'extinct.' S2: S3: S4: This might have led to their early extinction. P. This grey flightless bird belonged to the pigeon and the dove family. Q. Dodo's lack of flight forced them to nest on ground. R. Often stray dogs and wild pigs would trample on and eat Dodo eggs.	Question ID : 826662196 Status : Answered Chosen Option :	
Ans	 ★ 1. RQ ✓ 2. PR ★ 3. PQ ★ 4. QR 		
Q.6 Ans	Select the phrase/clause that could replace the underlined section. World War II proved to bet the deadliest conflict in human history, claiming nearly twice as many lives than were killed in World War I. 1. than in World War I. 2. as in World War I. 3. as were killed in World War I. 4. than would have been killed in World War I.	Question ID : 826662201 Status : Answered Chosen Option :	
Q.7	Given below are four-sentence paragraphs (S1-S4). S1 and S4 are given. From the options (P, Q, R) choose two sentences which can be S2 and S3. S1: Joe stepped onto the aeroplane and was met by one of the cabin crew. S2:	Question ID : 826662195 Status : Answered Chosen Option :	
Ans	R. He walked along the aisle of the plane and found his seat. 1. QR 2. QP 3. PQ 4. PR	247	
	Linked Answer Question: Given below is a passage with four blanks. For each blank, four alternatives are provided. Select one of them to fill each blank. In the 1870s, William Herschel, a British official in India, began(1) with fingerprints as a hobby		
	He realized that no two people had exactly(2) identification. In 1901, Edward Henry(4) finge sentence of more than one month's imprisonment. SubQuestion No: 8		
Q.8 Ans	Read the passage and fill in the blanks of (4) by choosing the best option. 1. built up 2. set up	Question ID : 826662192 Status : Answered Chosen Option :	
	X 3. lined up 3. lined up		





	X 4. took up		
Linked Answer Question:		mult form alternatives are supplied. Calcat one of	
	Given below is a passage with four blanks. For each blank, four alternatives are provided. Select one of them to fill each blank.		
	In the 1870s, William Herschel, a British official in India He realized that no two people had exactly(2) identification. In 1901, Edward Henry(4) finge sentence of more than one month's imprisonment.	fingerprint and this fact(3) used for	
;	SubQuestion No : 9		
Q.9	Read the passage and fill in the blanks of (2) by choosing the best option.	Question ID : 826662190	
Ans	✓ 1. identical	Status : Answered	
	× 2. similar	Chosen Option	
	X ₃ alike		
	× 4. uniform		
	Linked Answer Question:		
	Given below is a passage with four blanks. For each blank, four alternatives are provided. Select one of them to fill each blank.		
	In the 1870s, William Herschel, a British official in India, began(1) with fingerprints as a hobby. He realized that no two people had exactly(2) fingerprint and this fact(3) used for identification. In 1901, Edward Henry(4) fingerprints records for all the criminals serving a sentence of more than one month's imprisonment.		
;	SubQuestion No : 10		
	Read the passage and fill in the blanks of (1) by choosing the best option.	Question ID : 826662189	
0 Ans	X 1 examining	Status : Answered	
		Chosen Option 🖑	
	X 2. testing		
	X 3. experimenting → 1. The state of the		
	✓ 4. investigating		
	Linked Answer Question:		
	Given below is a passage with four blanks. For each blank, four alternatives are provided. Select one of them to fill each blank.		
	In the 1870s, William Herschel, a British official in India He realized that no two people had exactly(2)		
	identification. In 1901, Edward Henry(4) fingerprints records for all the criminals serving a sentence of more than one month's imprisonment.		
;	SubQuestion No : 11		
Q.1 1	Read the passage and fill in the blanks of (3) by choosing the best option.	Question ID : 826662191	
Ans	X 1 must to be	Status : Answered	
	✓ 2. could be	Chosen Option :	
	X 3. can be		
	× 4. was		
	() To Was		





Q.12 Select the phrase/clause that best completes the sentence. Question ID: 826662199 bad weather, the trip will be postponed to next week. Status: Answered X 1 In the case of Chosen Option # X 2. In the case 3. In case X 4. In case of Q.13 Select the phrase that best defines the phrase in bold. Question ID: 826662184 A prima facie case is such Status: Answered Chosen Option : 1 as it is made to seem at first sight 2. as it seems at first sight X 3 as it seems to be after investigations × 4 as it turns out to be at the end Q.14 Choose the word which is closest to the meaning of the underlined word. Question ID: 826662194 Her instinctive reaction was to deny all that she had said earlier. Status: Answered Ans X 1 automatic Chosen Option: 2. initial X 3. deliberate X 4 subconscious Q.15 Select the phrase/clause that best completes the sentence. Question ID: 826662198 Vipul: We all know the man is a thief, don't we? Status: Answered Vishal: Yes, Chosen Option ✓ 1. but some one dares to say so publicly. × 2. but everyone dares to say so publicly. ★ 3. but someone dares to say so publicly. 4 but no one dares to say so publicly. Q.16 Select the phrase/clause that best completes the sentence. Question ID: 826662197 Please vote for the member has done the most for our village. Status: Answered X 1 who's you believe Chosen Option 2. which you believe X 3 who you believe 4 whom you believe Q.17 Select the phrase/clause that could replace the underlined section. Question ID: 826662202 There was so much of anger in his voice that I had no choice but to hang up. Status: Answered Ans X 1 as much Chosen Option 2. such a lot of X 3. so much X 4. a lot of





Q.18 Fill in the blanks with the word that best completes the sentence. Question ID: 826662193 Attacks by the enemy planes forced the British army to Status: Answered Ans X 1 revoke Chosen Option : ✓ 2. retract X 3. retrace X 4 retreat Q.19 Select the phrasal verb that best completes the sentence. Question ID: 826662187 The firefighters fought the blaze while the crowd Status: Answered X 1 looked in Chosen Option : √ 2. looked out X 3. looked away. X 4 looked on Q.20 Select the correct spelling of the word to complete the sentence. Question ID: 826662185 is a synonym for graveyard. Status: Answered Ans × 1 sematary Chosen Option 4 X 2. cemetery 3. cematery X 4. cemetary Section: General Intelligence/Reasoning Q.1 Choose the correct alternative that will complete the given series. Question ID: 826662214 BDF, HJL, NPR, ? Status: Answered Ans X 1. TRP Chosen Option : √ 2. TVX X 3. TVY X 4. UWX Q.2 Select the related number from the given alternatives. Question ID: 826662205 32:17::104:? Status: Answered Ans X 1. 55 Chosen Option : **2.** 53 X 3. 57 X 4. 60 Arrange the following words is a meaningful order. Question ID: 826662212 1. Hut Status: Answered 2. Bungalow Chosen Option : 3. Palace 4. Flat Ans X 1. 3, 1, 2, 4 X 2. 2, 1, 3, 4





X 3. 4, 2, 3, 1 4. 1, 4, 3, 2 Q.4 In a row of boys, Atul is seventh from the start and twenty second from end. How many boys are there in the row? Question ID: 826662216 Ans X 1. 27 Status: Answered Chosen Option # 2. 28 X 3. 29 X 4. 30 Q.5 Pointing towards a girl, Veena said, "Her mother is the only daughter of my mother." How is that girl Question ID: 826662208 Ans X 1 Niece Status: Answered Chosen Option : X 2. Mother √ 3. Daughter X 4. Sister Introducing a man, Shilpa said, "His brother's father is the only child of my grandfather." How is the man related to Shilpa? Q.6 Question ID: 826662217 X 1. Son Ans Status: Answered Chosen Option X 2. Cousin X 3. Uncle 4. Brother Q.7 Select the one which is different from the other three alternatives. Question ID: 826662206 Ans X 1. Walk Status: Answered Chosen Option X 2. Laugh X 3. Play 4. Sleep Q.8 Manoj ranks sixteenth in a class of 40 students. What is his rank from the last? Question ID: 826662207 Ans X 1. 27th Status: Answered Chosen Option 2 ✓ 2. 25th X 3. 24th X 4. 26th Q.9 What is related to 'Skin' is the same way as 'Taste' is related to 'Tongue'? Question ID: 826662203 Ans X 1. Itching Status: Answered Chosen Option: 3 X 2. Colour √ 3. Feel X 4. wound Q.10 Select the one which is different from the other three alternatives. Question ID: 826662215 Ans X 1. Ghee Status: Answered





✓ 2. Milk X 3. Cheese X 4. Butter Q.11 From the alternatives, select the word which cannot be formed using the letters of the given word. Given word: RECREATION Question ID: 826662210 √ 1. NATION Status: Answered Chosen Option : X 2. RATION X 3. ACTION X 4. CREATE Q.12 In a certain code language, JUNGLE is written as ITMFKD. How will SUGAR be written in the same code? Question ID: 826662209 Ans X 1. TVHBS Status: Answered Chosen Option -X 2. RTHAQ X 4. RTFBS Q.13 दिए गए विकल्पों में से संबंधित शब्द का चयन करें। Question ID: 826662204 Status: Answered गाय : बछड़ा : : भेड़ :? Chosen Option : Ans 🗶 1. मृग छौना **√** 2. मेमना 🗙 ३. शावक ★ 4. पिल्ला Q.14 Five products, P. Q. R. S and T are priced differently in a general store. Value of 'R' is Rs 500/-. 'P' is cheaper than 'R' but Costlier than 'Q'. T is costlier than 'R' but cheaper than 'S'. Which one of the product is costliest? Question ID: 826662211 Status: Answered Ans X 1. R Chosen Option: X 3. T Q.15 Choose the correct alternative that will complete the given series. Question ID: 826662213 11, 32, 53, 74, 95, ? Status: Answered Ans X 1. 113 Chosen Option : 1 **2**. 116 X 3. 106 X 4. 111 Section: General Aptitude/Numerical Ability **Q.1** Seven persons working for 8 hours a day can complete a work in 13 days. When they work $6\frac{1}{2}$ hours a day Question ID: 826662232 and 9 more persons are brought to work, then in how many days will the work be completed? Status: Answered Ans X 1. 6 Chosen Option : X 2. 9





3. 7 X 4. 8

Q.2 A train takes $1\frac{1}{3}$ hours less for a journey of 528 km, if its speed is increased by $5\frac{1}{2}$ km/hour from its usual speed. The usual speed of the train, in km/hour, is:

Ans

V 1. 44

X 2. 48

X 3. 55

X 4. 52

A person sells an article on the price that is obtained after reducing its marked price by Rs. 640, and gains 15%. If the cost price of the article is Rs. 4800, what percentage of profit will he get if he sells it at the Q.3

Q.4 A, B, C और D चारों एक ही कंपनी के कर्मचारी हैं। 2003 और 2004 में उनमें से प्रत्येक के बेतन में

Ans

√ 1. 28 ½
3

 \times 2. $30\frac{7}{16}$

X 3. 26 \frac{1}{4}

 \times 4. 30 $\frac{5}{12}$

वृद्धि क्रमशः निम्न प्रकार हुई: A: p% और (p+1)%

B : (p+1)% और p%

Question ID: 826662229 Status: Answered

Chosen Option

Question ID: 826662228 Status: Answered Chosen Option :

Question ID: 826662226 Status: Answered Chosen Option :

C: (p+2)% और (p-1)% तथा D: (p+4)% और (p-3)% आरम्भं में सभी का बेतन समान था। किसके वेतन में सबसे कम वृद्धि हुई?

Ans X 1. B

X 2. C

X 3. A

√ 4. D

Q.5 By how much above the cost should goods be marked for sale so that after allowing a trade discount of 25% and a cash discount of 4%, a net gain of 8% on the cost is made?

Ans

X 1. 60%

X 2. 32%

3. 50%

X 4. 29% Q.6 The angle of elevation and depression of the top and bottom of a lighthouse from the top of a building $60 \, \mathrm{m}$ high are 30° and 60° respectively. If x meters is the difference between the heights of the light house and the building and y meters is the distance between them, then the approximate value of (x+y) is:

Ans

X 1 48.3

X 2. 34.6

3. 54.6

X 4. 69.3

Q.7 The sum of a certain infinite geometric series is 20. When all the terms in the series are squared, the sum of the resulting series is 80. The sum of first three terms of the original series is:

Ans

Question ID: 826662224 Status: Answered

Question ID: 826662227

Status: Answered

Chosen Option: 3

Chosen Option: 1

Question ID: 826662220 Status: Answered



 $\times 1.16 \frac{4}{81}$

 \times 2. $11\frac{1}{9}$

 \checkmark 3. $14\frac{2}{27}$

 \times 4. $6\frac{2}{3}$

A and B can do a piece of work in 12 days while B and C can do it in 24 days, and C and A in 20 days. They all work together on it for 10 days and then B and C leave. How many days more A will take to

Ans

 \times 1. $3\frac{2}{3}$ days

 \times 2. $3\frac{1}{3}$ days

 \times 3. $4\frac{5}{11}$ days

 $\sqrt{4.2 \frac{8}{11}}$ days

Q.9 The product of the values of x for which $2^{2x+3} - 65(2^x - 1) = 57$ is:

Ans 🗸 1. -9

X 2. 9

X 3. -3

X 4. 3

Q.10 A person X sets out to walk from A to B and at the same time another person Y starts to walk from B to A After passing each other, X and Y complete their journeys in 3 hours 20 minutes and 4 hours 48 minutes respectively. If X walks at the speed of 4 km/hour, what is the speed (in km/hour) of Y?

Ans

 \times 2. $3\frac{1}{2}$

 \times 3. $4\frac{3}{4}$

 \times 4. $4\frac{1}{2}$

 $\textbf{Q.11} \quad \text{If the ratio of the sums of first p terms and q terms of an arithmetic progression is } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio of } p^2 : q^2 \text{, then the ratio } p^2 : q^2 :$

Ans

 \times 1. (p+1):(q+1)

X 2. p: q

 \times 3. (2p+1):(2q+1)

 \checkmark 4. (2p-1):(2q-1)

Q.12 If a+b+c=8, $a^2+b^2+c^2=30$ and $a^3+b^3+c^3=134$, then the value of $(abc)^{-1}$ is:

X 1. 6

Question ID: 826662231

Status: Answered

Chosen Option :

Question ID: 826662221

Status: Answered

Chosen Option 4

Question ID: 826662230

Status: Answered

Chosen Option :

Question ID: 826662219

Status: Answered

Chosen Option : 4

Question ID: 826662223

Status: Answered





 \checkmark 2. $\frac{1}{10}$

 \times 3. $\frac{1}{6}$

X 4. 10

Q.13 The expression $\left[\frac{2x-7}{(x-2)(x-3)(x-4)} - \frac{1}{x^2-6x+8}\right] \div \frac{1}{x^2-5x+6}$, where x > 4, is equal to:

 \times 1. $\frac{1}{x-3}$

2. 1

X 3. -1

 \times 4. (x-2)(x-3)

Q.14 The sum of first 15 terms of the series $2^2 + 5^2 + 8^2 + \cdots$ is:

Ans X 1. 10440

X 2. 10425

√ 3. 10455

X 4. 10415

Q.15 Fresh grapes contain 80% water by weight, whereas dried grapes contain 15% water by weight. How many kilograms of dried grapes can be obtained from 13.6 kg of fresh grapes?

Ans

X 1. 2.95

X 2. 3.6

3. 3.2

X 4. 2.72

Section: General Knowledge/Awareness

Q.1 The award given to the coaches of sports and games in India is:

1. Dronacharya Award

X 2. Arjuna Award

X 3. Vir Chakra

X 4. Golden Boot

Q.2 Who founded the "Brahmo Samaj"?

Ans

1 Raja Ram Mohun Roy

🗡 2. Swami Dayanand Saraswati

X 3. Rabindranath Tagore

X 4. MN Roy

The capital of Syria, where unrest is going on, is:

Ans

1 Damascus

Status: Answered Chosen Option :

Question ID: 826662222

Question ID: 826662218

Status: Answered

Chosen Option -

Question ID: 826662225 Status: Answered

Chosen Option : **

Question ID: 826662238

Status: Answered

Chosen Option

Question ID: 826662233 Status: Answered

Chosen Option: 1

Question ID: 826662236 Status: Answered





X 2. Doha X 3. Baghdad X 4. Kabul Q.4 The recently released movie "Airlift", based on a true world event, is directed by: Question ID: 826662241 Ans X 1 Sanjay Leela Bhansali Status: Answered Chosen Option : 2. Raja Krishna Menon X 3. Karan Johan X 4. Aditya Chopra Q.5 The virus causing microcephaly in new born infants of infected mothers is: Question ID: 826662242 Ans ✓ 1. Zika Status: Answered Chosen Option # X 2. H1N1 X 3. HIV X 4. Zoster Q.6 Some soldiers recently lost their lives in the Siachen glacier due to: Question ID: 826662240 Ans √ 1. An avalanche Status: Answered Chosen Option : X 2. A cyclone X 3. An iceberg X 4. A blizzard Q.7 The correct chronological sequence of some of the Moghul Emperors who ruled India in the 16th and Question ID: 826662235 17th Century is: Status: Answered 1 Akbar, Humayun, Jahangir, Shah Jahan Chosen Option : 🗸 2. Babur, Humayun, Akbar, Shah Jahan Jahangir, Akbar, Humayun, Bahadur Shah Zafar 🗡 4. Babur, Akbar, Humayun, Jahangir The Grand Trunk Road was built by: Question ID: 826662234 Status: Answered Moghul King Akbar Chosen Option : 2 Emperor Ashoka X 3 Alexander the Great 4 Sher Shah Suri Q.9 The slogan "Make in India" is likely to have the following outcome: Question ID: 826662239 Cause economic growth in the country Status: Answered Chosen Option : 2 Make judiciary efficient X 3. Build great sportsmen X 4. Improve education sector





Q.10 The mountain range, NOT in India, is:

Ans X 1. Karakoram

🗙 2. Satpura

√ 3. Rocky

X 4 Shivalik

Question ID: 826662237 Status: Answered

