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JEE MAIN SAMPLE PAPER

Paper 1 for B.Tech

SET B

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Physics

Q1. A uniform cylinder of length L and mass M having cross-sectional area A is suspended, with its length vertical, from a fixed point by a massless spring, such that it is half submerged in a liquid of density σ at equilibrium position. The extension X_0 of the spring when it is in equilibrium is:

1. $\frac{Mg}{k}\left(1-\frac{LA\sigma}{M}\right)$
2. $\frac{Mg}{k}\left(1-\frac{LA\sigma}{2M}\right)$
3. $\frac{Mg}{k}\left(1+\frac{LA\sigma}{M}\right)$ (Here k is spring constant)
4. Mg/k

Correct. 2

Q2. A projectile is given an initial velocity of (i + 2j) m/s, where i is along the ground and j is along the vertical. If g = 10 m/s^2, the equation of its trajectory is:

1. $y=2x-5x^2$
2. $4y=2x-5x^2$
3. $4y=2x-25x^2$
4. $y=x-5x^2$

Correct. 1

Q3. In a collinear collision, a particle with an initial speed v_o strikes a stationary particle of the same mass. If the final total kinetic energy is 50% greater than the original kinetic energy, the magnitude of the relative velocity between the two particles, after collision, is :

1. $v_o/4$
2. $\sqrt{2}v_o$
3. $v_o/2$
4. $v_o/\sqrt{2}$

Correct. 2

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Q4. In an a.c. circuit, the instantaneous e.m.f. and current are given by e=100 sin 30 t, i=20 sin (30t - π/4) In one cycle of a.c., the average power consumed by the circuit and the wattless current are, respectively :
1. 50, 10
2. 1000/√2, 10
3. 50/√2 , 0
4. 50 , 0

Correct. 2

Q5. Two batteries with e.m.f. 12 V and 13 V are connected in parallel across a load resistor of 10 Ω. The internal resistances of the two batteries are 1 Ω and 2 Ω respectively. The voltage across the load lies between :
1. 11.6 V and 11.7 V
2. 11.5 V and 11.6 V
3. 11.4 V and 11.5 V
4. 11.7 V and 11.8 V

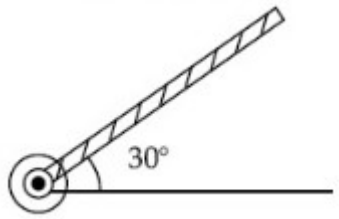
Correct. 2

Q6. An external pressure P is applied on a cube at 0°C so that it is equally compressed from all sides. K is the bulk modulus of the material of the cube and α is its coefficient of linear expansion. Suppose we want to bring the cube to its original size by heating. The temperature should be raised by:

1. P/3αK
2. P/αK
3. 3α/PK
4. 3PKα

Correct. 1

Q7. A rod of length 50 cm is pivoted at one end. It is raised such that if makes an angle of 30° from the horizontal as shown and released from rest. Its angular speed when it passes through the horizontal $\left(\text{ in rads }^{-1}\right)$ will be $\left(g=10 \mathrm{ms}^{-2}\right)$

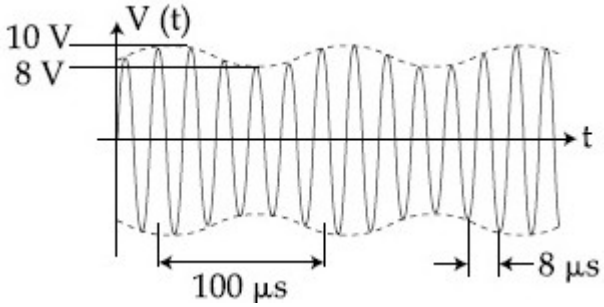


1. √30/2
2. v30/2
3. √30
4. √20/3

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Correct. 3

Q8. An amplitude modulated signal is plotted below:

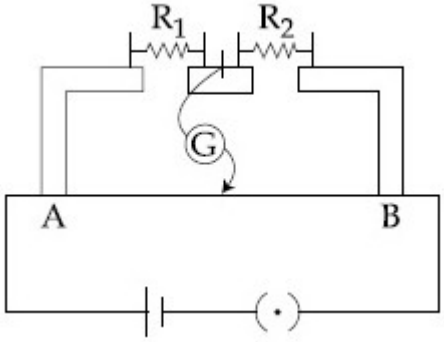


Which one of the following best describes the above signal ?

1. $\left(9+\sin\left(2.5\pi\times10^{5}\mathrm{t}\right)\right)\sin\left(2\pi\times10^{4}\mathrm{t}\right)\mathrm{V}$
2. $\left(1+9\sin\left(2\pi\times10^{4}t\right)\right)\sin\left(2.5\pi\times10^{5}t\right)V$
3. $\left(9+\sin\left(2\pi\times10^{4}t\right)\right)\sin\left(2.5\pi\times10^{5}t\right)V$
4. $\left(9+\sin\left(4\pi\times10^{4}t\right)\right)\sin\left(5\pi\times10^{5}t\right)V$

Correct. 3

Q9. In the experimental set up of metre bridge shown in the figure, the null point is obtained at a distance of 40 cm from A. If a 10 resistor is connected in series with R, the null point shifts by 10 cm. The resistance that should be connected in parallel with (R_1 +10) Ω such that the null point shifts back to its initial position is :



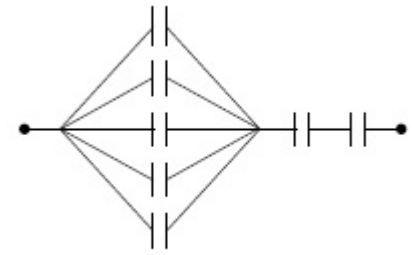
1. 30 Ω
2. 40 Ω
3. 20 Ω
4. 602

Correct. 4

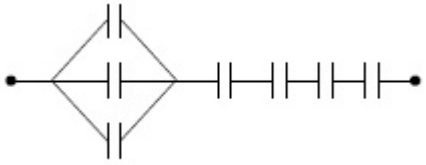
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Q10. Seven capacitors, each of capacitance 2μF, are to be connected in a configuration to obtain an effective capacitance of (6/13) μF. Which of the combinations, shown in figures below, will achieve the desired value ?

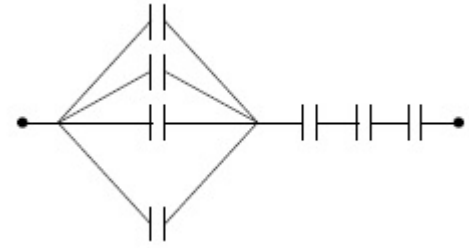
1.



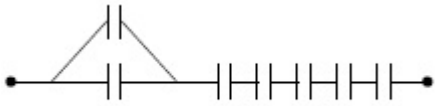
2.



3.



4.



Correct. 2

Q11. A solid metal cube of edge length 2 cm is moving in a positive y-direction at a constant speed of 6 m/s. There is a uniform magnetic field of 0.1 T in the positive z-direction. The potential difference between the two faces of the cube perpendicular to the x-axis, is

1. 1 mV
2. 12 mV
3. 2 MILV
4. 6 mV

Correct. 2

Q12. A 2 W carbon resistor is color coded with green, black, red and brown respectively. The maximum current which can be passed through this resistor is :

1. 100 mA
2. 0.4 mA
3. 20 mA

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4. 63 mA

Correct. 3

Q13. Two satellites, A and B, have masses m and 2m respectively. A is in a circular orbit of radius R, and Bis in a circular orbit of radius 2R around the earth. The ratio of their kinetic energies, TA/Tв, is :

1. 1
2. 2
3. $\sqrt{\frac{1}{2}}$
4. $\frac{1}{2}$

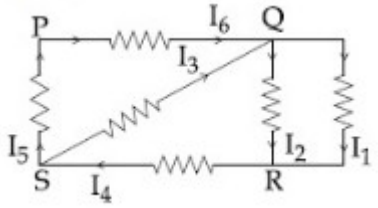
Correct. 1

Q14. A resonance tube is old and has jagged end. It is still used in the laboratory to determine velocity of sound in air. A tuning fork of frequency 512 Hz produces first resonance when the tube is filled with water to a mark 11 cm below a reference mark, near the open end of the tube. The experiment is repeated with another fork of frequency 256 Hz which produces first resonance when water reaches a mark 27 cm below the reference mark. The velocity of sound in air, obtained in the experiment, is close to :

1. 335
2. 322
3. 328
4. 341

Correct. 3

Q15. In the given circuit diagram, the currents, = -0.3 A, =0.8 A and =0.4 A, are flowing as shown. The currents ,, and respectively, are :

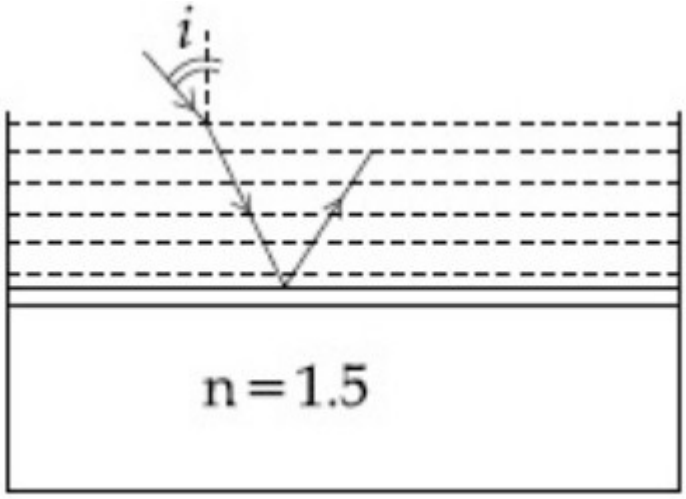


1. 1.1 A, 0.4 A, 0.4 A
2. -0.4 A, 0.4 A, 1.1 A
3. 1.1 A, -0.4 A, 0.4 A
4. 0.4 A, 1.1 A, 0.4 A

Correct. 1

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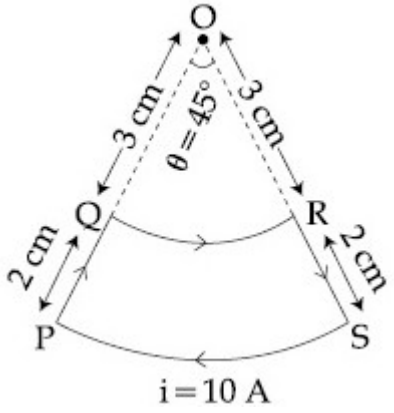
Q16. Consider a tank made of glass(refractive index 5) with a thick bottom. It is filled with a liquid of refractive index u. A student finds that, irrespective of what the incident angle i (see figure) is for a beam of light entering the liquid, the light reflected from the liquid glass interface is never completely polarized. For this to happen, the minimum value of u is :



1. $\sqrt{\frac{5}{3}}$
2. $\frac{4}{3}$
3. $\frac{3}{\sqrt{5}}$
4. $\frac{5}{\sqrt{3}}$

Correct. 3

Q17. A current loop, having two circular arcs joined by two radial lines is shown in the figure. It carries a current of 10 A. The magnetic field at point O will be close to :

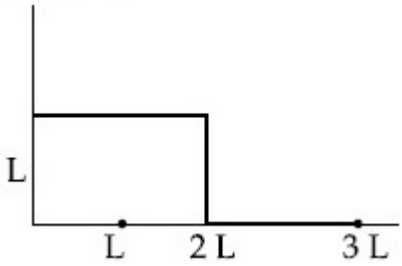


1. 1.0 x 10^{-5} T
2. 1.5 x 10^{-5} T
3. 1.0 x 10^{-7} T
4. 1.5 x 10^{-7} T

Correct. 1

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Q18. The position vector of the centre of mass $\vec{r}_{cm}$ cm of an asymmetric uniform bar of negligible area of cross-section as shown in figure is :



1. $\vec{r}_{cm} = \frac{11}{8}L\hat{x} + \frac{3}{8}L\hat{y}$
2. $\vec{r}_{\mathrm{cm}} = \frac{13}{8}\mathrm{L}\hat{x} + \frac{5}{8}\mathrm{L}\hat{y}$
3. $\vec{r}_{cm} = \frac{3}{8}L\hat{x} + \frac{11}{8}L\hat{y}$
4. $\vec{r}_{cm} = \frac{5}{8}L\hat{x} + \frac{13}{8}L\hat{y}$

Correct. 2

Q19. A satellite of mass M is in a circular orbit of radius R about the centre of the earth. A meteorite of the same mass, falling towards the earth, collides with the satellite completely inelastically. The speeds of the satellite and the meteorite are the same, just before the collision. The subsequent motion of the combined body will be:
1. in an elliptical orbit
2. in the same circular orbit of radius R
3. in a circular orbit of a different radius
4. such that it escapes to infinity

Correct. 1

Q20. An ideal gas occupies a volume of 2 mat a pressure of 3 x 10^6 Pa. The energy of the gas is :
1. 9 x 10^6 J
2. 3 x 10^2 J
3. 6 x 10^4 J
4. 10^8 J

Correct. 1

Q21. Using a nuclear counter the count rate of emitted particles from a radioactive source is

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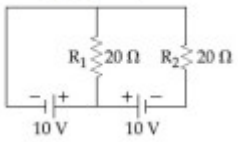
measured. At t=0 it was 1600 counts per second and t=8 seconds it was 100 counts per second. The count rate observed, as counts per second, at t=6 seconds is close to ____.

Correct. 200

Q22. Unpolarized light of intensity I passes through an ideal polarizer A. Another identical polarizer B is placed behind A. The intensity of light beyond B is found to be 1/2. Now another identical polarizer C is placed between A and B. The intensity beyond B is now found to be 1/8 . The angle between polarizer A and C is ____(°).

Correct. 45

Q23. In the given circuit the cells have zero internal resistance. The currents (in Amperes) passing through resistance R_1 and R_2
respectively, are _____ and _____.



Correct. 0.5, 0

24. A parallel plate capacitor of capacitance 90 pF is connected to a battery of emf 20 V. If a dielectric material of dielectric constant K = 5/3 is inserted between the plates, the magnitude of the induced charge will be ___ (nC).

Correct. 1.2

Q25. Let the moment of inertia of a hollow cylinder of length 30 cm (inner radius 10 cm and outer radius 20 cm), about its axis be I. The radius of a thin cylinder of the same mass such that its moment of inertia about its axis is also I, is _____ (cm).

Correct. 16

Chemistry

Q1. An aqueous solution contains 0.10 M H_2S and 0.20 M HCl. If the equilibrium constants for the formation of HS^- from H_2S is 1.0×10^{-7} and that of S^{2-} from HS^- ions is 1.2×10^{-13} then the concentration of S^{2-} ions in aqueous solution is:
1. 5×10^{-8}
2. 3×10^{-20}
3. 6×10^{-21}
4. 5×10^{-19}

Correct. 2

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Q2. An aqueous solution contains an unknown concentration of Ba^{2+}. When 50 mL of a 1 M solution of Na_2SO_4 is added, $BaSO_4$ just begins to precipitate. The final volume is 500 mL. The solubility product of $BaSO_4$ is 1×10^{-10}. What is the original concentration of Ba^{2+} ?

1. 5×10^{-9} M
2. 2×10^{-9} M
3. 1.1×10^{-9} M
4. 1.0×10^{-9} M

Correct. 3

Q3. Sodium salt of an organic acid 'X' produces effervescence with conc. H_2SO_4. 'X' reacts with the acidified aqueous $CaCl_2$ solution to give a white precipitate which decolourises acidic solution of $KMnO_4$.'X' is :

1. CH_3COONa
2. $Na_2C_2O_4$
3. C_6H_5COONa
4. HCOONa

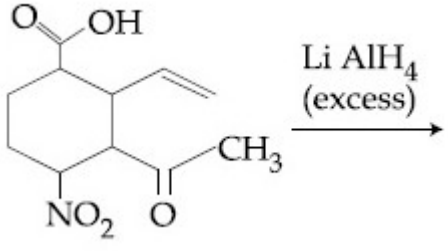
Correct. 2

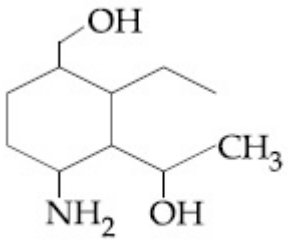
Q4. The pH of rain water , is approximately :

1. 7.5
2. 6.5
3. 7.0
4. 5.6

Correct. 4

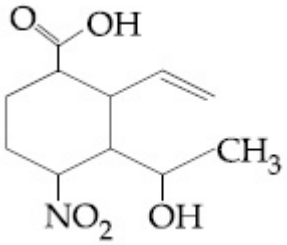
Q5. The major product obtained in the following reaction is:

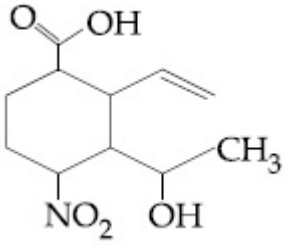


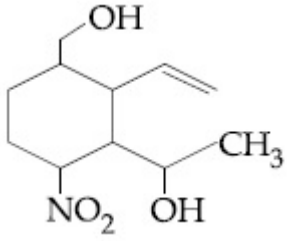


1.

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2. 

3. 

4. 

Correct. 2

Q6. For the equilibrium,
$2H_2O = H_3O^+ + OH^-$, the value of ΔG° at 298 K is approximately :
1. 80 kJ mol^{-1}
2. – 80 kJ mol^{-1}
3. 100 kJ mol^{-1}
4. - 100 kJ mol^{-1}

Correct. 1

Q7. The effect of lanthanoid contraction in the lanthanoid series of element by and large means:
1. Increase in both atomic and ionic radii
2. Decrease on both atomic and ionic radii
3. Decrease in atomic radii and increase in ionic radii
4. Increase in atomic radii and decrease in ionic radii

Correct. 2

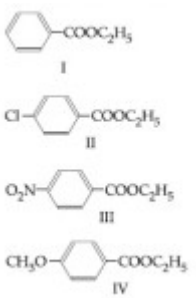
Q8. Hall-Heroult's process is given by:

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1. $ZnO + C \quad \overset{\text{Coke, 1673K}}{\rightarrow} Zn + CO$
2. $2Al_2O_3 + 3C \rightarrow 4Al + 3CO_2$
3. $Cr_2O_3 + 2Al \rightarrow Al_2O_3 + 2Cr$
4. $Cu^{2+}(aq) + H_2(g) \rightarrow Cu(s) + 2H^+(aq)$

Correct. 2

Q9. The decreasing order of ease of alkaline hydrolysis for the following esters is

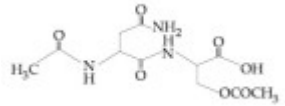
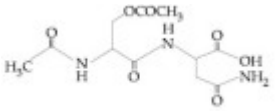
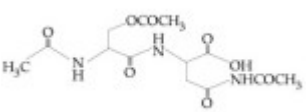
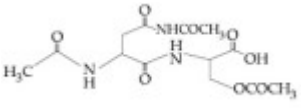


1. III > II >IV>I
2. II > III >I> IV
3. II > II >I>IV
4. IV > II > III >I

Correct. 3

Q10. The correct structure of product 'p' in the following reaction is :

$\text{Asn} - \text{Ser} + (GH_3CO)_2O \overset{NEt_1}{\rightarrow}, P$

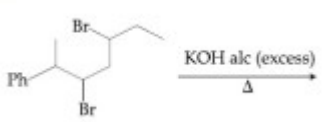
1. 
2. 
3. 
4. 

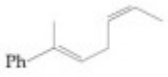
Correct. 1

Q11. The major product of the following reaction

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is :



1. 

2. 

3. 

4. $\left[(Ph_3P)_3\,Ir\,Cl\right]$

Correct. 3

Q12. The two monomers for the synthesis of Nylon 6, 6 are :

1. $HOOC(CH_2)_6COOH$
   $H_2N(CH_2)_6NH_2$
2. $HOOC(CH_2)_6COOH$
   $H_2N(CH_2)_4NH_2$
3. $HOOC(CH_2)_4COOH$
   $H_2N(CH_2)_6NH_2$
4. $HOOC(CH_2)_4COOH$
   $H_2N(CH_2)_4NH_2$

Correct. 3

Q13. The correct statement(s) among I to III with respect to potassium ions that are abundant within the cell fluids is/are:

I. They activate many enzymes

II. They participate in the oxidation of glucose to produce ATP

III. Along with sodium ions, they are responsible for the transmission of nerve signals

1. III only
2. I and II only
3. I, II and III
4. I and III only

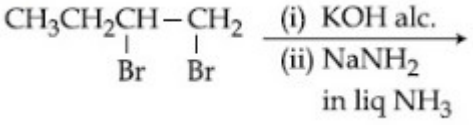
Correct. 3

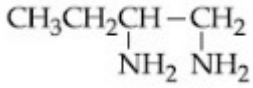
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Q14. The element that shows greater ability to form $p\mathbb{F}-p\pi$ multiple bonds, is :
1. C
2. Ge
3. Sn
4. Si

Correct. 1

Q15. The major product of the following reaction is :



1. $CH_3CH=C=CH_2$
2. $CH_3CH_2C=CH$
3. 

4. $CH_3CH=CHCH_2NH_2$

Correct. 2

Q16. If K_{sp} of Ag_2CO_3 is 8×10^{-12}, the molar solubility of Ag_2CO_3 in $0.1MAgNO_3$ is :
1. $8\times10^{-11}M$
2. $8\times10^{-10}M$
3. $8\times10^{-13}M$
4. $8\times10^{-12}M$

Correct. 2

Q17. The correct decreasing order for acid strength is :
1. $FCH_2COOH > NCCH_2COOH > NO_2CH_2COOH > ClCH_2COOH$
2. $CNCH_2COOH > O_2NCH_2COOH > FCH_2COOH > ClCH_2COOH$
3. $NO_2CH_2COOH > NCCH_2COOH > FCH_2COOH > ClCH_2COOH$
4. $NO_2CH_2COOH > FCH_2COOH > CNCH_2COOH > ClCH_2COOH$

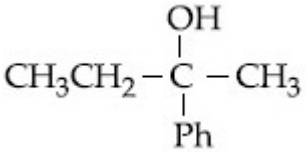
Correct. 3

Q18. A solution of sodium sulfate contains 92 g of Na^+ ions per kilogram of water. The molality of

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Na^+ ions in that solution in mol kg^{-1} is:
1. 8
2. 4
3. 12
4. 16

Correct. 2

Q19. 

Cannot be prepared by:
1. $PhCOCH_3 + CH_3CH_2MgX$
2. $HCHO + PHCH(CH_3)CH_2MgX$
3. $PHCOCH_2CH_3 + CH_3MgX$
4. $CH_3CH_2COCH_3 + PhMgX$

Correct. 2

Q20. In a chemical reaction,



the initial concentration of B was 1.5 times of the concentration of A, but the equilibrium concentrations of A and B were found to be equal. The equilibrium constant(K) for the aforesaid chemical reaction is:
1. 1
2. ¼
3. 4
4. 16

Correct. 3

Q21. 20 mL of 0.1 M H_2SO_4 solution is added to 30 mL of 0.2 M NH_4 OH solution. The pH of the resultant mixture is _____ ? [pk_b of NH_4OH=4.7]

Correct. 9.0

Q22. _____ litres of water must be added to 1 litre of an aqueous solution of HCl with a pH of 1 to

AglaSem Admission

create an aqueous solution with pH of 2?

Correct. 9.0

Q23. Total number of lone pair of electrons in I_3^- ion is _____.

Correct. 9

Q24. A solution containing 62 g ethylene glycol in 250 g water is cooled to -10°C. If K_f for water is $1.86 \mathrm{Kkgmol}^{-1}$
the amount of water (in g) separated as ice is _____.

Correct. 64

Q25. The gas leaked from a storage tank of the Union Carbide plant in Bhopal gas tragedy was _____.

Correct. Methylisocyanate

Maths

Q1. If x, y, z are in A.P. and $\tan^{-1}x$, $\tan^{-1}y$ and $\tan^{-1}z$ are also in A.P., then
1. $2x = 3y = 6z$
2. $6x = 3y = 2z$
3. $6x = 4y = 3z$
4. $x = y = z$

Correct. 4

Q2. If $\int f(x)\,dx = \Psi(x)$, then $\int x^5 f(x^3)\,dx$ is equal to
1. $(1/3)x^3\Psi(x^3) - 3\int x^3\Psi(x^3)\,dx + C$
2. $(1/3)x^3\Psi(x^3) - \int x^2\Psi(x^3)\,dx + C$
3. $(1/3)[x^3\Psi(x^3) - \int x^3\Psi(x^3)\,dx] + C$
4. $(1/3)[x^3\Psi(x^3) - \int x^2\Psi(x^3)\,dx]+ C$

Correct. 2

Q3. Tangent and normal are drawn at P(16, 16) on the parabola $y^2=16x$, which intersect the axis of the parabola at A and B, respectively. If C is the centre of the $\angle CPB=\theta$, then a value of $\tan\theta$ is :
1. 1/2
2. 2
3. 3
4. 4/3

Correct. 2

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Q4. If S is the set of distinct values of 'b' for which the following system of linear equations x+y+z=1 x+ay+z=1 ax+by+z=0 has no solution, then S is :
1. an infinite set
2. a finite set containing two or more elements
3. a singleton
4. an empty set

Correct. 3

Q5. If (2+sin x)dy/dx + (y+1)cos x = 0 and y(0) = 1, then y(π/2) is equals to:
1. -2/3
2. -1/3
3. 4/3
4. 1/3

Correct. 4

Q6. Integration $\int \cos(\log_e x)dx$ is equals to :
(Where C is an integration constant)
1. $\frac{x}{2}[\sin(\log_e x) - \cos(\log_e x)] + \mathrm{C}$
2. $x\left[\cos(\log_e x) - \sin(\log_e x)\right] + \mathrm{C}$
3. $\frac{x}{2}[\cos(\log_e x) + \sin(\log_e x)] + C$
4. $x\left[\cos(\log_e x) + \sin(\log_e x)\right] + \mathrm{C}$

Correct. 3

Q7. Let $a_1, a_2 \ldots\ldots, a_{30}$ be an A.P., S = $\sum_{i=1}^{30} a_i$ and $\mathrm{T} = \sum_{\mathrm{i}=1}^{15} a_{(2\mathrm{i}-1)}$. If a_5 = 27 and S-2T = 75, then a_{10} is equal to:
1. 47
2. 52
3. 42
4. 57

Correct. 2

Q8. If a circle of radius R passes through the origin O and intersects the coordinate axes at A and B, then the locus of the foot of perpendicular from O on AB is :
1. $\left(x^2+y^2\right)^3 = 4R^2x^2y^2$
2. $\left(x^2+y^2\right)^2 = 4Rx^2y^2$
3. $\left(x^2+y^2\right)(x+y) = R^2xy$

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4. $\left(x^2+y^2\right)^2=4R^2x^2y^2$

Correct. 1

Q9. Let z_1 and z_2 be two complex numbers satisfying $|z_1|=9$ and $|z_2-3-4i|=4$. Then the minimum value of $|z_1-z_2|$ is :
1. $\sqrt{2}$
2. 2
3. 0
4. 1

Correct. 3

Q10. If the area enclosed between the curves $y=\mathrm{k}x^2$ and $x=\mathrm{k}y^2$, $(\mathrm{k}>0)$, is 1 square unit. Then k is:
1. $\frac{\sqrt{3}}{2}$
2. $\frac{1}{\sqrt{3}}$
3. $\frac{2}{\sqrt{3}}$
4. $\sqrt{3}$

Correct. 2

Q11. Let $\mathrm{I}=\int_{\mathrm{a}}^{b}\left(x^4-2x^2\right)\mathrm{d}x$. If I is minimum then the ordered pair (a, b) is :
1. $(0,\sqrt{2})$
2. $(-\sqrt{2},\sqrt{2})$
3. $(\sqrt{2},-\sqrt{2})$
4. $(-\sqrt{2},0)$

Correct. 2

Q12. Let z_1 and z_2 be any two non-zero complex numbers such that $3|z_1|=4|z_2|$. If $z=\frac{3z_1}{2z_2}+\frac{2z_2}{3z_1}$ then,
1. Im(z)=0
2. $|z|=\frac{1}{2}\sqrt{\frac{17}{2}}$
3. Re(z)=0

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4. $|z| = \sqrt{\frac{5}{2}}$

Correct.

Q13. If $5, 5r, 5r^2$ are the lengths of the sides of a triangle, then r cannot be equal to:
1. 3/4
2. 5/4
3. 7/4
4. 3/2

Correct. 3

Q14. Let $f : \mathbf{R} \to \mathbf{K}$ be a function such that $f(x) = x^3 + x^2 f'(1) + x f''(2) + f'''(3), x \in \mathbb{R}$. Then f (2) equals :
1. -4
2. 8
3. 30
4. - 2

Correct. 4

Q15. Let z be a complex number such that |2|+z=3 +i (where i= √-1). Then z is equal to :
1. $\frac{5}{4}$
2. $\frac{5}{3}$
3. $\frac{\sqrt{34}}{3}$
4. $\frac{\sqrt{41}}{4}$

Correct. 2

Q16. A bag contains 30 white balls and 10 red balls. 16 balls are drawn one by one randomly from the bag with replacement. If X be the number of white balls drawn, then $\left(\frac{\text{mean of } X}{\text{standard deviation of } X}\right)$ is equal to:
1. 4
2. $3\sqrt{2}$
3. $4\sqrt{3}$
4. $\frac{4\sqrt{3}}{3}$

AglaSem Admission

Correct. 3

Q17. If a hyperbola has length of its conjugate axis equal to 5 and the distance between its foci is 13, then the eccentricity of the hyperbola is :
1. 13/12
2. 13/6
3. 2
4. 13/8

Correct. 1

Q18. The logical statement $[\sim (\sim \mathrm{p} \vee \mathrm{q}) \vee (\mathrm{p} \wedge \mathrm{r})] \wedge (\sim \mathrm{q} \wedge \mathrm{r})$ is equivalent to :
1. $(p \wedge \sim q) \vee r$
2. $\sim \mathrm{p} \vee \mathrm{r}$
3. $(\sim \mathrm{p} \wedge \sim \mathrm{q}) \wedge \mathrm{r}$
4. $(p \wedge r) \wedge \sim q$

Correct. 4

Q19. The coefficient of t^4 in the expansion of $\left(\frac{1-t^6}{1-t}\right)^3$ is :
1. 10
2. 12
3. 15
4. 14

Correct. 3

Q20. If $A = \begin{bmatrix} e^t & e^{-t}\cos t & e^{-t}\sin t \\ e^t & -e^{-t}\cos t - t^{-t}\sin t & -e^{-t}\sin t + e^{-t}\cos t \\ e^t & 2e^{-t}\sin t & -2e^{-t}\cos t \end{bmatrix}$ then A is :
1. invertible only if $\mathrm{t} = \pi$
2. invertible only if $\mathrm{t} = \frac{\pi}{2}$
3. not invertible for any teR.
4. invertible for all teR.

Correct. 4

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Q21. Consider a class of 5 girls and 7 boys. The number of different teams consisting of 2 girls and 3 boys that can be formed from this class, if there are two specific boys A and B, who refuse to be the members of the same team, is _____?

Correct. 300

Q22. If the tangent at (1, 7) to the curve $x^2=y-6$ touches the circle $x^2+y^2+16x+12y+c=0$ then the value of c is _____?

Correct. 95

Q23. The intercepts on x-axis made by tangents to the curve, $y=\int_0^x |t|\,dt$, $x \in R$, which are parallel to the line $y = 2x$, are equal to $(\pm)$_____.

Correct. 1

Q24. The sum of the following series
$1+6+\frac{9\left(1^2+2^2+3^2\right)}{7}+\frac{12\left(1^2+2^2+3^2+4^2\right)}{9}+\frac{15\left(1^2+2^2+\ldots+5^2\right)}{11}+\cdots$ upto 15 terms is _____?

Correct. 7820

Q25. Let T_n be the number of all possible triangles formed by joining vertices of an n-sided regular polygon. If $T_{n+1} - T_n = 10$, then the value of n is _____?

Correct. 5

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