Sri Chaitanya IIT Academy.,India.

A.P T.S KARNATAKA TAMILNADU MAHARASTRA DELHI RANCHI

A right Choice for the Real Aspirant

ICON Central Office - Madhapur - Hyderabad

SEC: Sr.S60_Elite, Target & LIIT-BTs	**JEE-MAIN**	**Date: 03-01-2025**
Time: 09.00Am to 12.00Pm	**GTM-13/08**	**Max. Marks: 300**

IMPORTANT INSTRUCTION:

1. Immediately fill in the Admission number on this page of the Test Booklet with **Blue/Black** Ball Point **Pen** only.
2. The candidates should not write their Admission Number anywhere (except in the specified space) on the Test Booklet/ Answer Sheet.
3. The test is of **3 hours** duration.
4. The Test Booklet consists of **75 Questions.** The maximum marks are **300.**
5. There are **three** parts in the question paper 1,2,3 consisting of **Mathematics, Physics** and **Chemistry** having **25 Questions** in each subject and subject having **two sections.**

   (I) Section –I contains **20 Multiple Choice Questions** with only one correct option.

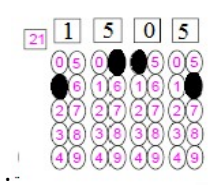
   Marking scheme: +4 for correct answer, **0** if not attempt and **-1** in all other cases.

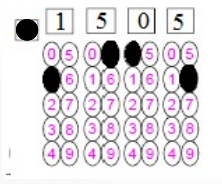
   (II) Section-II contains **05 Numerical Value Type Questions.**

- The Answer should be within **0 to 9999.** If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i,e. If answer is above **10** and less than **10.5** round off is **10** and If answer is from **10.5** and less than **11** round off is **11).**

  To cancel any attempted question bubble on the question number box.

  For example: To cancel attempted Question 21. Bubble on 21 as shown below





Question Answered for Marking **Question Cancelled for Marking**

Marking scheme: +4 for correct answer, **0** if **not attempt** and **-1** in all other cases.

6. Use **Blue / Black Point Pen only** for writing particulars / marking responses on the Answer Sheet. **Use of pencil is strictly prohibited.**
7. No candidate is allowed to carry any textual material, printed or written, bits of papers, mobile phone any electron device etc, except the Identity Card inside the examination hall.
8. Rough work is to be done on the space provided for this purpose in the Test Booklet only.
9. On completion of the test, the candidate must hand over the Answer Sheet to the invigilator on duty in the Hall. **However, the candidate are allowed to take away this Test Booklet with them.**
10. **Do not fold of make any stray marks on the Answer Sheet**

Name of the Candidate (in Capital): _____

Admission Number: | | | | | | | | | |

Candidate's Signature:_____ **Invigilator's Signature: _____**

03-01-2025_Sr.S60_Elite, Target & LIIT-BTs_Jee-Main-GTM-13/08_Test Syllabus

MATHEMATICS : TOTAL SYLLABUS

PHYSICS : TOTAL SYLLABUS

CHEMISTRY : TOTAL SYLLABUS

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MATHEMATICS

Max Marks: 100

SECTION-I (SINGLE CORRECT ANSWER TYPE)

This section contains **20 Multiple Choice Questions.** Each question has 4 options (1), (2), (3) and (4) for its answer, out of which ONLY ONE option can be correct.

Marking scheme: +4 for correct answer, 0 if not attempted and –1 in all other cases.

1. $\lim\limits_{x\to 0^+} \dfrac{\tan x\sqrt{\tan x}-\sin x\sqrt{\sin x}}{x^3.\sqrt{x}}$ Equals

1) 0.75 **2)** 0.85 **3)** 0.95 **4)** 1

2. The mean and standard deviation of 20 observations are found to be 10 and 2 respectively. On rechecking it was found that an observation by mistake was taken 8 instead of 12. The correct standard deviation is

1) $\sqrt{3.86}$ **2)** 1.8 **3)** $\sqrt{3.96}$ **4)** 1.94

3. Let the solution curve y = f(x) of the differential equation $\dfrac{dy}{dx}+\dfrac{xy}{x^2-1}=\dfrac{15x^4+4x^3+4x+1}{\sqrt{1-x^2}}, x\in(-1,1)$ passes through the origin. Then $\int\limits_{-1/2}^{1/2}\dfrac{f(x)dx}{\left(x^2+2\right)}$ is equal to.

1) $\dfrac{\pi}{6}$ **2)** $\dfrac{\pi}{6}-\dfrac{\sqrt{3}}{4}$ **3)** $\dfrac{\pi}{3}-\dfrac{\sqrt{3}}{4}$ **4)** $\dfrac{\pi}{3}-\dfrac{1}{4}$

4. Let $S_k=\sum\limits_{r=1}^{k}\tan^{-1}\left(\dfrac{6^r}{2^{2r+1}+3^{2r+1}}\right)$. Then $\lim\limits_{k\to\infty}S_k$ is equal to

1) $\tan^{-1}\left(\dfrac{3}{2}\right)$ **2)** $\dfrac{\pi}{2}$ **3)** $\cot^{-1}\left(\dfrac{3}{2}\right)$ **4)** $\tan^{-1}(3)$

5. The value of the definite integral $\int\limits_{\pi/8}^{3\pi/8}\dfrac{11+4\cos 2x+\cos 4x}{1-\cos 4x}dx$ equals:

1) $-6-\dfrac{\pi}{4}$ **2)** $6\sqrt{2}-\dfrac{\pi}{4}$ **3)** $12-\dfrac{\pi}{2}$ **4)** $6-\dfrac{\pi}{4}$

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6. If p, q, r are prime numbers and α,β,γ are positive integers such that L. C. M. of α,β,γ is p^3q^2r and greatest common divisor of α,β,γ is pqr, then the number of possible triplets (α,β,γ) will be:

1) 36 **2)** 72 **3)** 144 **4)** 60

7. Let f(x) = Max $\left\{x^2,(1-x)^2,2x(1-x)\right\}$ Where $0\le x\le 1$, if the Area of the region bounded by the curves y=f(x), x-axis, x=0 and x=1 is $\frac{p}{q}$; (where p, q are coprime numbers) then $p+q=$___.

1) 30 **2)** 40 **3)** 44 **4)** 72

8. Match the items of Column-I with Column-II

	Column-I		Column-II
I	If the coordinates of a point are $(4\tan\theta,3\sec\theta)$ where $\theta\ (\theta\neq(2n+1)\frac{\pi}{2},n\in Z)$ is parameter then the points lies on a conic whose eccentricity is	P	$\sqrt{3}$
II	If an ellipse has the length of major axis 10 units and semi minor axis length 4 units , then this ellipse has eccentricity	Q	$\frac{4}{5}$
III	If AB is double ordinate of a hyperbola $\frac{x^2}{a^2}-\frac{y^2}{9}=1$ such that triangle OAB is an equilateral triangle of side '2' then eccentricity of hyperbola is (where O is centre of Hyperbola)	R	$\frac{5}{3}$
IV	If the foci of ellipse $\frac{x^2}{K^2a^2}+\frac{y^2}{a^2}=1$ and hyperbola $\frac{x^2}{a^2}-\frac{y^2}{a^2}=1$ coincide then K can be	S	$\frac{3}{5}$
		T	$\sqrt{\frac{13}{3}}$

1) I-R; II-S; III-T; IV-P **2)** I-S; II-P; III-Q; IV-T

3) I-P; II-T; III-S; IV-Q **4)** I-Q; II-S; III-P; IV-T

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9. An urn contains 7 white and 5 black balls. A ball is drawn at a random and is put back into the urn along with 3 additional balls of the same colour as that of the ball drawn. A ball is again drawn at a random. Then the probability that the ball drawn is white is

1) $\frac{7}{32}$ **2)** $\frac{5}{12}$ **3)** $\frac{7}{12}$ **4)** $\frac{10}{25}$

10. Let $a_1, a_2, a_3 \ldots\ldots\ldots$ be an arithmetic progression. If $\frac{a_1 + a_2 + \ldots\ldots\ldots + a_{10}}{a_1 + a_2 + \ldots\ldots\ldots + a_P} = \frac{100}{P^2} (where\ P \neq 0)$

then $\frac{a_{11}}{a_{10}} =$ _____

1) $\frac{19}{21}$ **2)** $\frac{100}{21}$ **3)** $\frac{21}{19}$ **4)** $\frac{121}{100}$

11. A straight line L intersects perpendicularly both the lines:

$\frac{x+2}{2} = \frac{y+6}{3} = \frac{z-34}{-10}$ and $\frac{x+6}{4} = \frac{y-7}{-3} = \frac{z-7}{-2}$

Then the square of perpendicular distance of origin from L is

1) 5 **2)** 6 **3)** 7 **4)** 8

12. Let origin lies inside the circle $x^2 + y^2 - 10x - 4\sqrt{2}y - c = 0, c > 0$. A PQ chord through origin(where P,Q lies on circle) is such that OP = 2, OQ = 8 (where O is the origin), then the radius of the circle is

1) 5 **2)** 6 **3)** 7 **4)** 8

13. The length of focal chord AB of ellipse $\frac{x^2}{4} + \frac{y^2}{3} = 1$ is $\left(Given\ A = \left(\frac{8}{5}, \frac{3\sqrt{3}}{5} \right) \right)$

1) $\frac{4}{5}$ **2)** $\frac{16}{5}$ **3)** $\frac{32}{5}$ **4)** $\frac{64}{5}$

14. Let $f(x) = \int x^{\sin x} (1 + x.\cos x.ln\, x + \sin x)\, dx$ and $f\left(\frac{\pi}{2}\right) = \frac{\pi^2}{4}$. Find the value of $\cos\left(f(\pi)\right)$.

1) $\frac{\pi}{2}$ **2)** -1 **3)** π **4)** 1

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15. The value of $\sum_{r=1}^{5}\left(x^r+\frac{1}{x^r}\right)^2$, where x satisfies the equation $x^2+x+1=0$, is

1) 5 **2)** 6 **3)** 7 **4)** 8

16. Let R be a relation on real numbers given by $R=\{(a,b):3a-3b+\sqrt{7}\ is\ an\ irrational\ number\}$.

Then R is

1) Reflexive but neither symmetric nor transitive

2) Reflexive and transitive but not symmetric

3) Reflexive and symmetric but not transitive

4) An equivalence relation

17. A function f is defined on $[-3,3]$ as $f(x)=\begin{cases}\min\{|x|,2-x^2\}, & -2\le x\le 2\\ [|x|] & 2<|x|\le 3\end{cases}$ $[x]$ denote greatest integer $\le x$, number of points where f is not differentiable in $(-3,3)$ is

1) 3 **2)** 4 **3)** 5 **4)** 2

18. If m and n be the absolute maximum and minimum values of the function $f(x)=|x^2-7x+10|-5x+27; x\in[-2,14]$ then m+n is

1) 65 **2)** 66 **3)** 68 **4)** 70

19. If the parabola $y=ax^2+bx+c$ has vertex at $(4,2)$ and $a\in[1,3]$, then the absolute difference between the extreme values of abc is

1) 3600 **2)** 144 **3)** 3456 **4)** 169

20. Let set $A=\{x\in I^+: f(x)=x^3-8x^2+20x-13\ is\ a\ prime\ number\}$ Consider the statements:

Statement – I: Number of elements in set A is 3

Statement – II: sum of all elements in set A is 9, then

1) Both Statement – I and Statement – II are true

2) Statement – I is true and Statement – II is false

3) Statement – I is false and Statement – II is true

4) Both Statement – I and Statement – II are false

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SECTION-II (NUMERICAL VALUE TYPE)

This section contains **5 Numerical Value Type Questions**. The Answer should be within **0 to 9999.** If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i,e. If answer is above **10** and less than **10.5** round off is **10** and If answer is from **10.5** and less than **11** round off is **11**).

Marking scheme: +4 for correct answer, 0 if not attempt and -1 in all other cases.

21. Let $\vec{a},\vec{b},\vec{c}$ are three vectors of which every pair is non collinear, and the vectors $\vec{a}+3\vec{b}$ and $2\vec{b}+3\vec{c}$ are collinear with $\vec{c}$ and $\vec{a}$ respectively. If $\vec{b}.\vec{b}=1$, then find $\left|2\vec{a}+9\vec{c}\right|$.

22. The sum of the cubes of all the roots of the equation $x^4-3x^3-2x^2+3x+1=0$ is _____

23. Let $f(\theta)=\dfrac{1}{1+(\tan\theta)^x}$ and $s=\sum_{\theta=1^0}^{89^0} f(\theta)$ then the value of $\sqrt{2s-25}=$ _____

24. The remainder when the number $3^{2^{2^3}}-\left(3^{2^2}\right)^3$ is divide by 8, is……

25. let $A=\begin{bmatrix}1 & 2\\ 3 & 4\end{bmatrix}$ *and* $B=\begin{bmatrix}a & b\\ c & d\end{bmatrix}$ are two matrices such that $AB=BA$ and $c\neq 0$. Then the value of $\dfrac{a-d}{3b-c}$ *is* $\dfrac{-14}{K}$ then $K=$

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PHYSICS

Max Marks: 100

SECTION-I (SINGLE CORRECT ANSWER TYPE)

This section contains **20 Multiple Choice Questions.** Each question has 4 options (1), (2), (3) and (4) for its answer, out of which ONLY ONE option can be correct.

Marking scheme: +4 for correct answer, 0 if not attempted and –1 in all other cases.

26. Consider $S = x\cos\theta$ for $x = (2.0 \pm 0.2)\text{cm}$ and $\theta = (53+2)^\circ = (0.9250 \pm 0.0035)$ Radians. find absolute error in S. Given $\cos 53^\circ = \frac{3}{5}, \sin 53^\circ = \frac{4}{5}$.

1) 0.216 cm **2)** 0.126 cm **3)** 0.136 cm **4)** 0.116 cm

27. Statement – I : If the distance between plates of a charged isolated capacitor increases , then the potential energy in the electric field of capacitor increases.

Statement- II: The energy stored in a capacitor is always directly proportional to separation between the plates

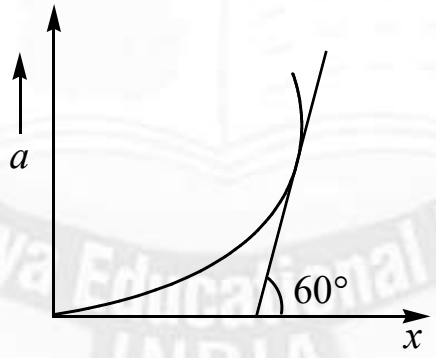
1) Both Statement – I and Statement – II are true

2) Statement – I is true and Statement – II is false

3) Statement – I is false and Statement – II is true

4) Both Statement – I and Statement – II are false

28. A particle starts moving with initial velocity $4\ \text{ms}^{-1}$ along the x-axis from origin. Its acceleration is varying with its position x in parabolic nature as shown in figure. At $x = \sqrt{3}$ m , a tangent to the curve makes an angle 60° with positive x-axis as shown. Then at $x = \sqrt{3}$ m



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Statement-I : Velocity $(v)=\sqrt{\sqrt{3}+16}\ \text{ms}^{-1}$

Statement -II : Acceleration (a) $=3\ \text{ms}^{-2}$

1) Both Statement – I and Statement – II are true

2) Statement – I is true and Statement – II is false

3) Statement – I is false and Statement – II is true

4) Both Statement – I and Statement – II are false

29. A bird is flying at the height of 12 cm from the surface of a lake and a fish is swimming at a depth of 24 cm from the surface.

(Take is $\mu=4/3$)

Column-A		Column-B	
(A)	Distance of fish from the surface as seen by bird	(P)	16 cm
(B)	Distance of bird from the surface as seen by fish	(Q)	40 cm
(C)	Distance between fish and bird as seen by bird	(R)	18 cm
(D)	Distance between fish and bird as seen by fish	(S)	30 cm

1) $A\to P,B\to R,C\to S,D\to Q$ **2)** $A\to R,B\to P,C\to Q,D\to S$

3) $A\to R,B\to P,C\to S,D\to Q$ **4)** $A\to P,B\to R,C\to Q,D\to S$

30. A particle undergoes from position $O(0,0,0)$ to $A(a,2a,0)$ via path $y=\dfrac{2x^2}{a}$ in $x-y$ plane under the action of a force which varies with particle's (x,y,z) coordinate as $\vec{F}=x^2y\hat{i}+yz^2e^{2z}\hat{j}-\left(\dfrac{z}{x+2y}\right)\hat{k}$. Work done by the force $\vec{F}$ is: (all symbols have their usual meaning and they are in SI unit.)

1) $\dfrac{4a^4}{5}$ **2)** $\dfrac{a^4}{5}$ **3)** $\dfrac{a^3}{4}$ **4)** $\dfrac{2a^4}{5}$

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31. Find the ratio of the extension in upper spring to lower spring.

1) $\frac{m_1k_1}{m_2k_2}$ **2)** $\frac{m_2k_1}{m_1k_2}$ **3)** $\frac{(m_1+m_2)k_2}{m_1k_1}$ **4)** $\frac{(m_1+m_2)k_2}{m_2k_1}$

32. A source of alternating emf $E = E_0 \sin\omega t$ is connected in series with a capacitor and inductor in a circuit with negligible resistance. Natural frequency of LC oscillation is $\omega_0 = \frac{1}{\sqrt{LC}}$. If charge on capacitor at any moment is given by $Q = Q_0 \sin\omega t$ then magnitude of Q_0 is :

1) $\frac{E_0}{\left|\omega^2 - \omega_0^2\right|}$ **2)** $\frac{E_0}{L\omega^2}$ **3)** $\frac{E_0}{L\left|\omega^2 - \omega_0^{\ 2}\right|}$ **4)** $\frac{E_0}{L\omega_0^{\ 2}}$

33. Two spherical bodies of masses m and 5 m and radii R and $2R$ respectively, are released in free space with initial separation between their centres equal to $12R$. If they attract each other due to gravitational force only, the distance covered by smaller sphere just before collision is

1) $\frac{15R}{2}$ **2)** $\frac{13R}{2}$ **3)** 10 R **4)** $\frac{17R}{2}$

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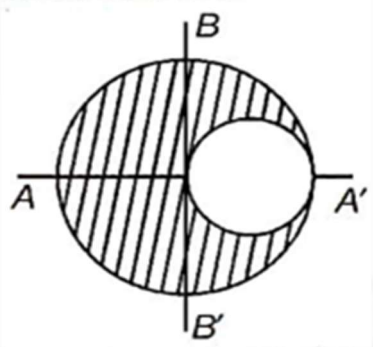
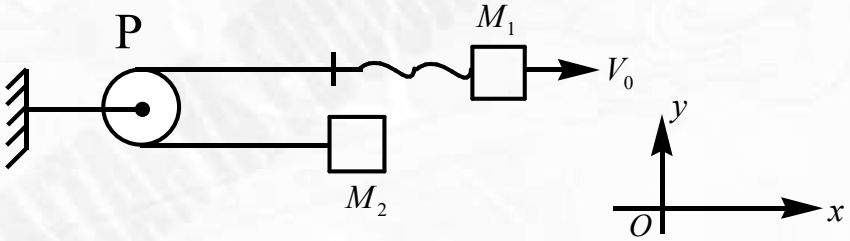
34. From a uniform sphere of mass M and radius R a cavity of diameter R is created as shown, Find the ratio of moment of inertia of the sphere left about AA' and BB'



1) $\frac{15}{28}$ **2)** $\frac{28}{15}$ **3)** $\frac{31}{30}$ **4)** $\frac{62}{57}$

35. The particles M_1 & M_2, and the pulley P are lying on smooth horizontal surface. Initially the string is loose.



Assertion: The particle M_1 is projected with a speed V_0. Then the particle M_2 moves with a velocity $\left(\frac{M_1V_0}{M_1+M_2}\right)$ just after the collision.

Reason: The momentum of system (M_1+M_2) is conserved along x – direction.

1) Assertion is True, **Reason** is True; **Reason** is a Correct explanation for **Assertion**

2) Assertion is True, **Reason** is True; **Reason** is NOT a Correct explanation for **Assertion**

3) Assertion is True, **Reason** is False

4) Assertion is False, **Reason** is True

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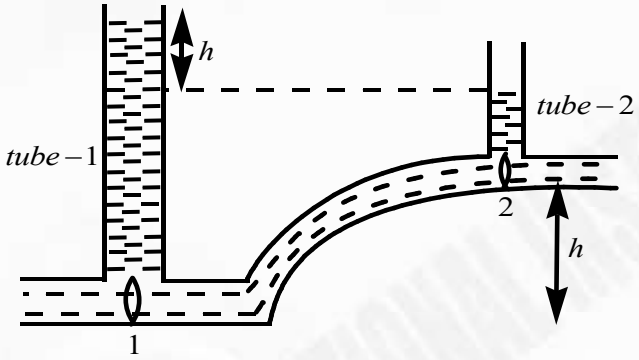
36. A non-viscous fluid of density ρ is flowing in a tube as shown in figure. Area of section-(**1**) is double that of section-(**2**). Centre of mass of section-(**2**) is h height above the Centre of mass of section-(**1**) and level of water in tube-1 is 'h' height above that in tube-2. Then:



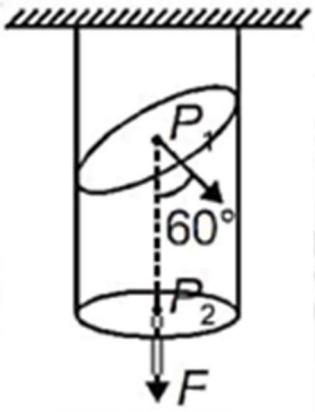
1) Velocity of fluid of section-(**1**) is $\sqrt{\frac{gh}{3}}$

2) Velocity of fluid at section-(**1**) is $\sqrt{\frac{2gh}{3}}$

3) Work done by gravitational force per unit volume from section-(**1**) to section-(**2**) is ρgh

4) Work done by elastic forces (pressure) per unit volume from section-(**1**) to section-(**2**) is $3\rho gh$

37. A massless uniform rod is subjected to force F at its free end as shown in figure. The ratio of tensile stress at plane P_1 to stress at P_2 is



1) 1:2 **2)** $\sqrt{2}:1$ **3)** 1:4 **4)** 3:2

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38. Binding Energy per nucleon of a fixed nucleus X^A is 6 MeV. It absorbs a neutron moving with $KE = 2MeV$, and converts into Y, emitting a photon of energy 1 MeV . The Binding Energy per nucleon of Y (in MeV) is

1) $\frac{(6A+1)}{(A+1)}$ **2)** $\frac{(6A-1)}{(A+1)}$ **3)** 7 **4)** $\frac{6A+1}{A-1}$

39. Electrons with de-Broglie wavelength λ fall on the target in an X-ray tube. The cut-off wavelength of the emitted X-rays is

1) $\lambda_0 = \frac{2mc\lambda^2}{h}$ **2)** $\lambda_0 = \frac{2h}{mc}$ **3)** $\lambda_0 = \frac{2m^2c^2\lambda^3}{h^2}$ **4)** $\lambda_0 = \lambda$

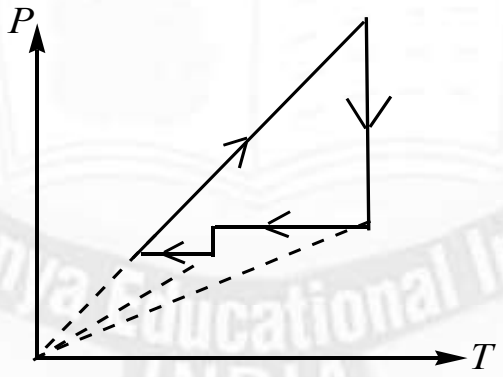
40. Time period of a particle executing SHM is 16 s. At time $t = 2s$, it crosses the mean position its amplitude of motion is $\frac{32\sqrt{2}}{\pi}m$. Its velocity at t=4s is

1) 1 ms^{-1} **2)** 2 ms^{-1} **3)** 4 ms^{-1} **4)** 8 ms^{-1}

41. A thick uniform rope of Length L is hanging from a rigid support. A transverse wave of wavelength λ_0 is set up in the middle of the rope. The wavelength of the wave as it reaches the top most point is

1) $2\lambda_0$ **2)** $\sqrt{2}\lambda_0$ **3)** $\frac{\lambda_0}{\sqrt{2}}$ **4)** λ_0

42. P -T curve for a cyclic process is as shown



P – V graph for this process will be:

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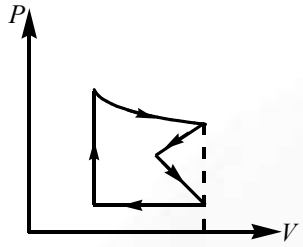
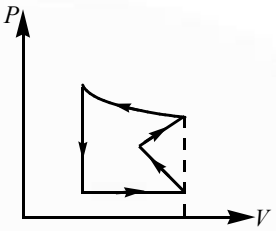
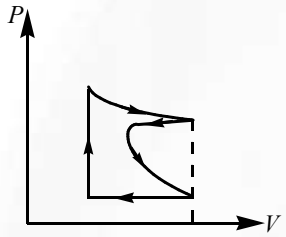
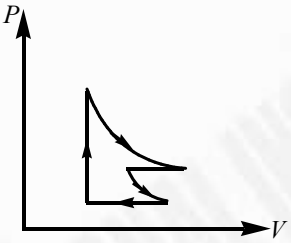
1) 

2) 

3) 

4) 

43. **Assertion:** The photodiode is used to detect the optical signals. These diodes are preferably operated in reverse biased mode

Reason: fractional change in majority carriers produce higher reverse bias current

1) Assertion is True, **Reason** is True; **Reason** is a Correct explanation for **Assertion**

2) Assertion is True, **Reason** is True; **Reason** is NOT a Correct explanation for **Assertion**

3) Assertion is True, **Reason** is False

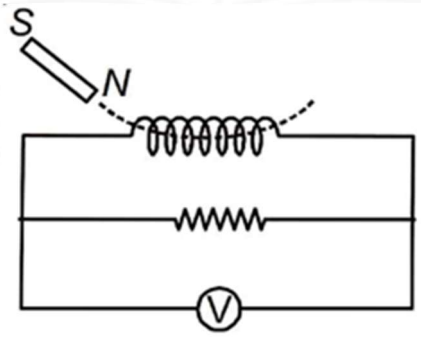
4) Assertion is False, **Reason** is True

44. Energy required to place a body of mass m from an orbit of radius 2R to 3R is (Given that M=mass of earth, R=Radius of Earth)

1) $\frac{GMm}{3R}$ **2)** $\frac{GMm}{12R}$ **3)** $\frac{GMm}{18R}$ **4)** $\frac{GMm}{6R}$

45. A small magnet is made to oscillate with a particular frequency through a coil as shown in figure.

The time variation of magnitude of emf generated across the coil during one cycle is



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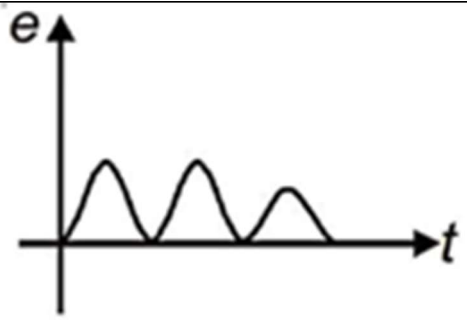
1)



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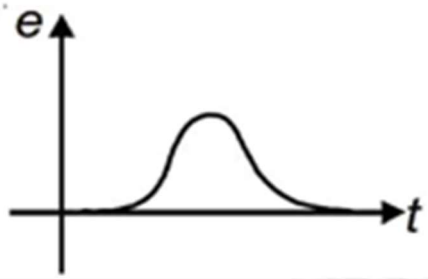

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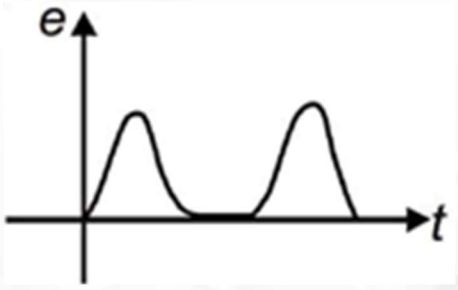

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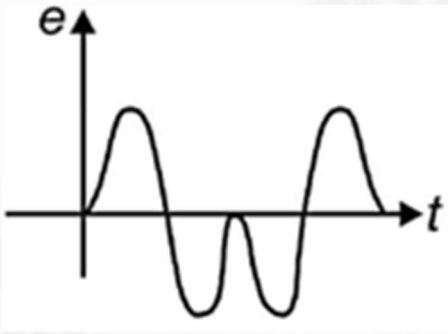
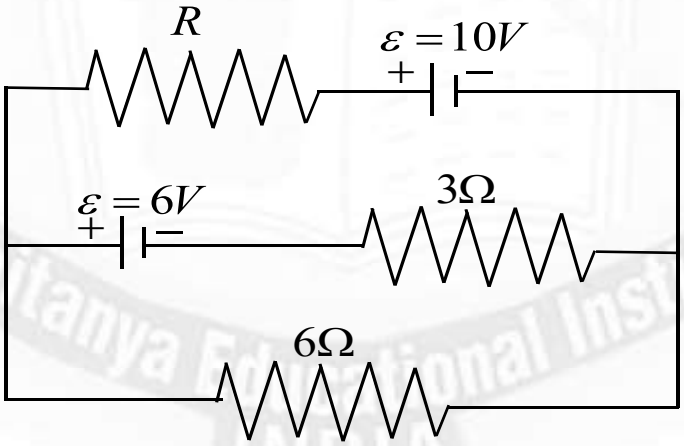


SECTION-II (NUMERICAL VALUE TYPE)

This section contains **5 Numerical Value Type Questions**. The Answer should be within **0 to 9999.** If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i,e. If answer is above **10** and less than **10.5** round off is **10** and If answer is from **10.5** and less than **11** round off is **11**).

Marking scheme: +4 for correct answer, 0 if not attempt and -1 in all other cases

46. In the given circuit if the internal resistance of the batteries are negligible, then for what value of resistance R (in Ω) will the thermal power generated in it be maximum.



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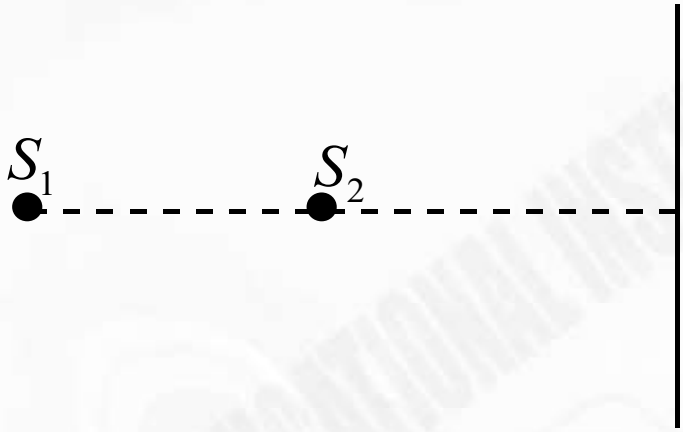
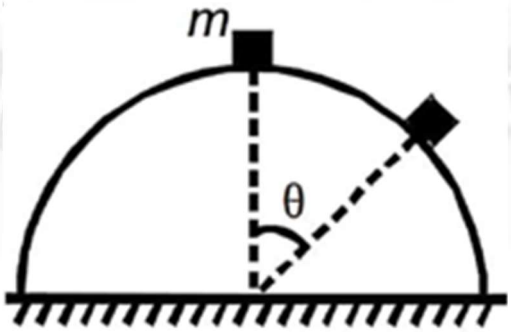
47. Two coherent monochromatic point sources S_1 and S_2 are placed in front of an infinite screen as shown in figure. Wavelength of the light emitted by both the sources is λ. Initial phase difference between the sources is zero.



Initially $S_1S_2 = 2.5\lambda$ and the number of bright circular rings on the screen in n_1. If the distance S_1S_2 is increased and made 5.7λ, the number of bright circular rings becomes n_2. The difference $n_2 - n_1$ is:

48. A particle mass of m is placed in equilibrium at the top of a fixed rough hemisphere of radius R. Now the particle is given a gentle push so that it starts sliding on the surface of the hemisphere. It is found that the particle leaves the contact with the surface of the hemisphere at angular position θ with the vertical where $\cos\theta = \frac{3}{5}$. If the work done against friction is $\frac{2mgR}{10x}$, find x.



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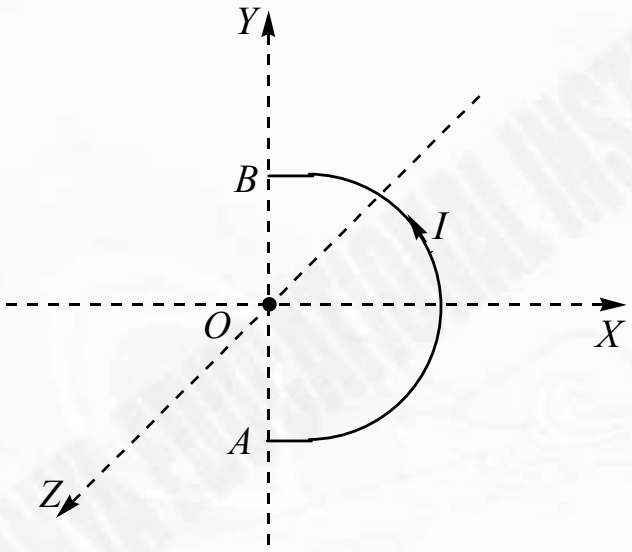
49. A conductor carrying current 60A is in the form of a semicircle AB of radius R and lying in xy-plane with its centre 'O' at origin as shown in the figure. The magnitude of $\oint \vec{B}\cdot\vec{d}\ell$ for the circle $x^2+z^2=3R^2$ in xz-plane due to current in curve AB is $10n\mu_0$. Find the value of n (n is an integer)



50. The electric resistance of medium depends upon permeability (μ) and permittivity (ε) as given below $R\propto(\mu)^a(\varepsilon)^b$ .If $a-b=N$. The value of **N** is …….

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CHEMISTRY

Max Marks: 100

SECTION-I (SINGLE CORRECT ANSWER TYPE)

This section contains **20 Multiple Choice Questions.** Each question has 4 options (1), (2), (3) and (4) for its answer, out of which ONLY ONE option can be correct.

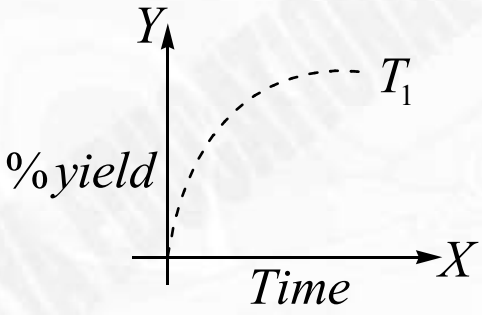
Marking scheme: +4 for correct answer, 0 if not attempted and –1 in all other cases.

51. Percentage composition of Carbon by mole in isopentane

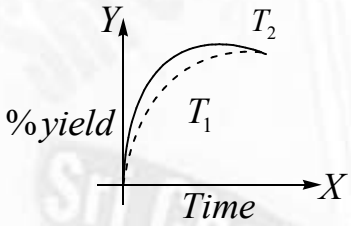
1) 29.41% **2)** 28.41% **3)** 50% **4)** 60%

52. The percentage yield of $SO_3(g)$ as a function of time in the reaction

$SO_2(g)+\frac{1}{2}O_2(g) \rightleftharpoons SO_3(g)$, $\Delta H_r < 0$ at (P, T_1) is given below



If this reaction is conducted at (P, T_2) with $T_2 > T_1$. The percentage yield of SO_3 as a function of time is represented by

1)


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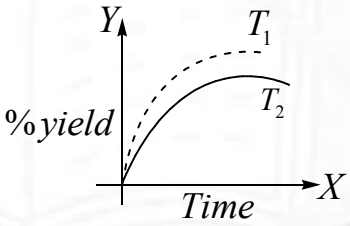

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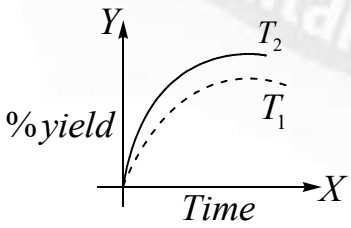

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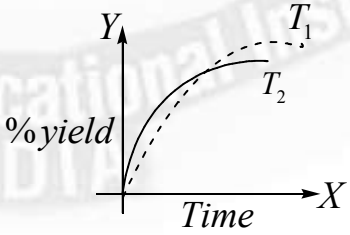

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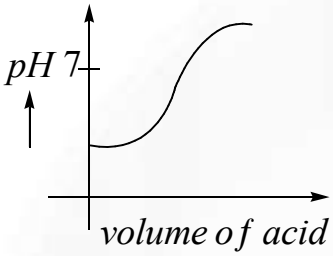
53. The plot of pH-metric titration of weak base like methyl amine vs strong acid hydrobromic acid looks like

1)



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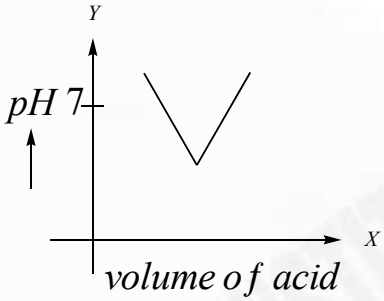

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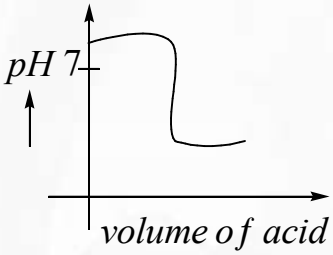

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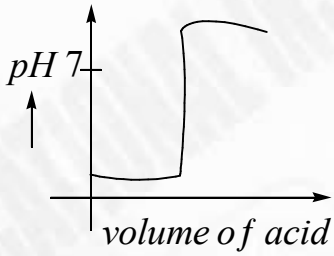

54. Given below are two statements: one labelled as Assertion A and other is labelled as Reason R

Assertion A: $1.24g$ of hydrated hypo dissolved in water to make $250.0ml$ solution result in 0.2M hypo solution

Reason R: Molar mass of hydrated hypo is $248gmol^{-1}$

In the light of the above statements. Choose the correct answer from the options given below

1) A is true but R is false

2) A is false but R is true

3) Both A and R are true but R is not the correct explanation of A

4) Both A and R are true and R is the correct explanation of A

55. Given below are two statements

Statement-1: The limiting molar conductivities of potassium sulphate is higher compared to that of propionic acid

Statement-2: Molar conductivity decreases with decrease in concentration of electrolyte

In the light of the above statements, choose the most appropriate answer from the options

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1) Both statement-1 and Statement-2 are false

2) Statement-1 is true and Statement-2 is false

3) Statement-1 is false but Statement-2 is true

4) Both Statement-1 and Statement-2 are true

56. Iron is extracted from its ore via the reaction

$Fe_2O_3 + 3CO \rightarrow 2Fe + 3CO_2$

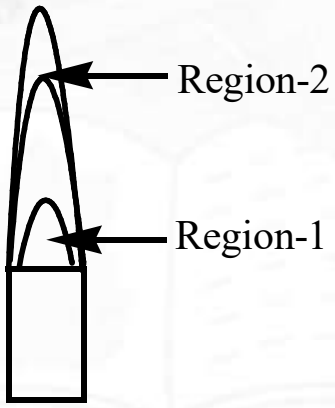
(Fe = 56amu)

The volume of CO (at STP) required to produce 2kg of Iron is _____ Liters

1) 1200 **2)** 1300 **3)** 1400 **4)** 1000

57. In borax bead test of Cobalt metal B_2O_3 or borax $Na_2\left[B_4O_5(OH)_4\right].8H_2O$ is heated in a Bunsen burner flame with Cobalt(II) oxide on loop of platinum wire the mixture fuses to give a glass like metaborate bead.

The colour of bead in flame region 1 and 2 respectively are



1) Blue and Green only **2)** Green and Blue only

3) Blue and Blue only **4)** Yellow and Blue only

58. $\underset{(yellow\,colour)}{PbCrO_4(s)} + (excess)\,NaOH(aq) \rightarrow A(Soluble\,complex) + \underset{[yellow\,colour]}{Na_2CrO_4(aq)}$

Correct formula of complex 'A' is

1) $Pb(OH)_2$ **2)** $Na_2\left[Pb(OH)_4\right]$ **3)** $Na_3\left[Pb(OH)_6\right]$ **4)** $Na_4\left[Pb(OH)_5\right]$

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59. Match List-I with List-II

	List-I Molecular Ions		**List-II Number of lone pair of electrons on central atom**
A	IF_7	I	Three
B	ICl_4^-	II	One
C	SO_2	III	Two
D	I_3^-	IV	Zero

Choose the correct answer from the options given below

1) $A-IV; B-I; C-II, D-III$ **2)** $A-II; B-I; C-IV, D-III$

3) $A-II; B-III; C-IV, D-I$ **4)** $A-IV; B-III; C-II, D-I$

60. Given below are two statements one is labelled as Assertion A and other is labelled as Reason R

Assertion A: Fluorine forms only one oxoacid HOF. Where as other halogens forms more

Reason R: Fluorine has smallest size among all halogen and is highly electronegative

In the light of above statements choose, The most appropriate answer from the options given below

1) A is correct but R is not correct

2) A is not correct but R is correct

3) Both A and R are correct and R is the correct explanation of A

4) Both A and R are correct and R is not the correct explanation of A

61. Outer most electronic configuration of Th^{+3} ion is

1) $5f^1$ **2)** $5f^0$ **3)** $6d^1$ **4)** $6d^2 7s^2$

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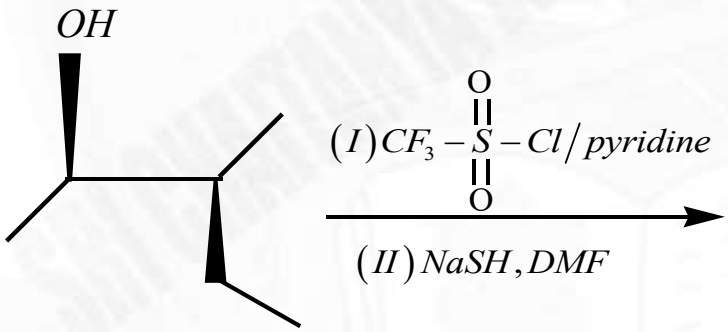
62. The crystal field stabilization energy $(CFSE)$ and magnetic moment (spin-only) of an octahedral aqua complex of metal ion (M^{Z+}) are $-0.8\Delta_0$ and $3.87BM$ respectively identify (M^{Z+})

1) Ti^{+2} **2)** Co^{2+} **3)** Cr^{+3} **4)** Mn^{+2}

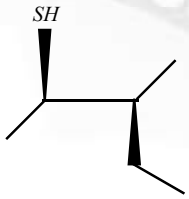
63. An organic compound "A" with molecular formula C_8H_8O forms an orange red precipitate with 2,4-DNP reagent and gives yellow precipitate on heating with iodine in the presence of sodium hydroxide. It neither reduces Tollens or Fehlings reagent, nor does it decolourises bromine water or Baeyer's reagent. On drastic oxidation with chromic acid, It gives a carboxylic acid (B) having molecular formula $C_7H_6O_2$. Degree of unsaturation of compound (A) and (B) respectively are

1) 5, 5 **2)** 4, 4 **3)** 3, 5 **4)** 3, 3

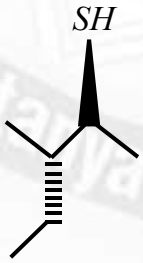
64.



Most stable product of the above following reaction is



1)



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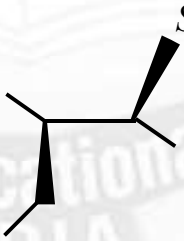

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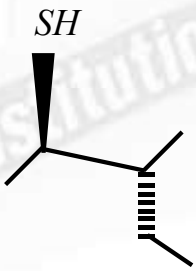

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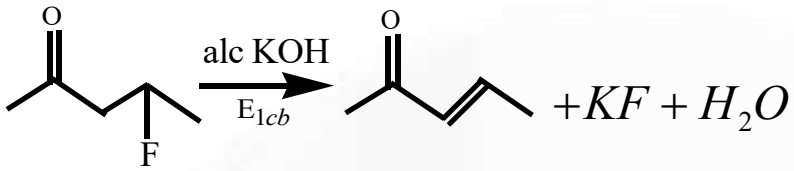
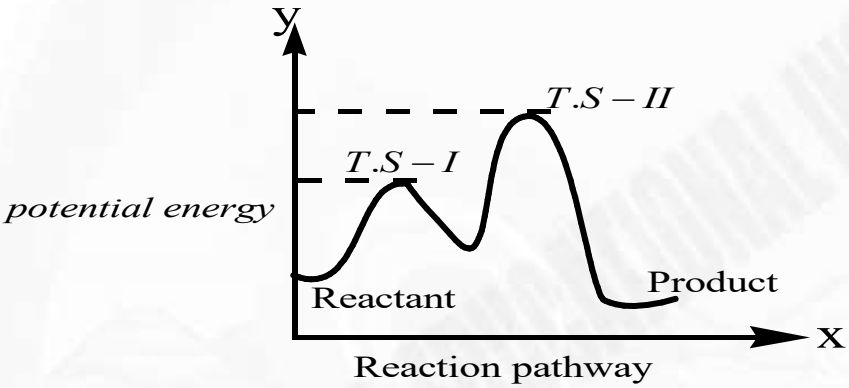
NEET 2023 BORA VARUN CHAKRAVARTHI sri chaitanya 12th Class 720 720 MARKS RANK 1



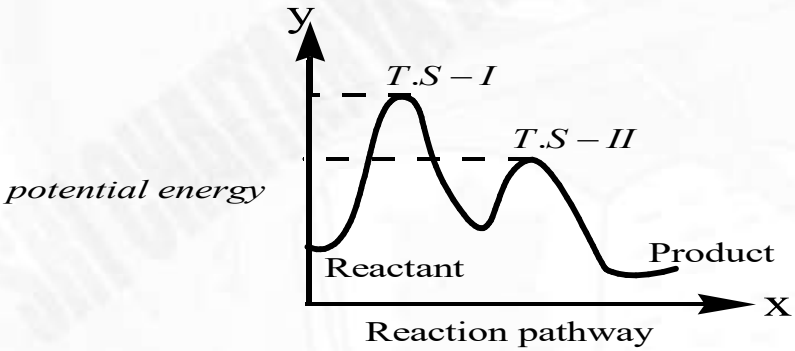
65.

Correct energy profile diagram of the above reaction is

(T.S = Transition state; R.I = Reaction intermediate)



1)



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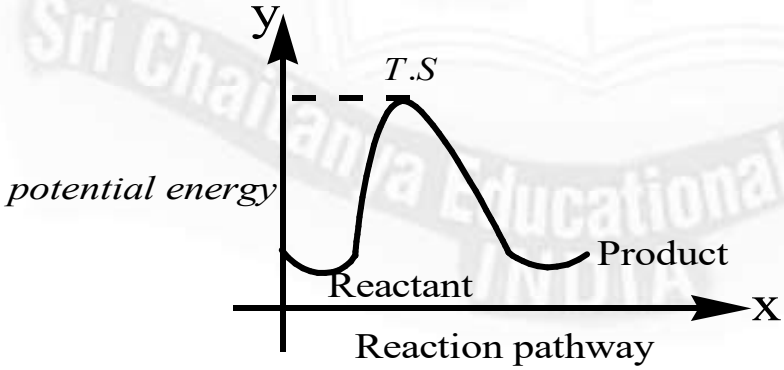

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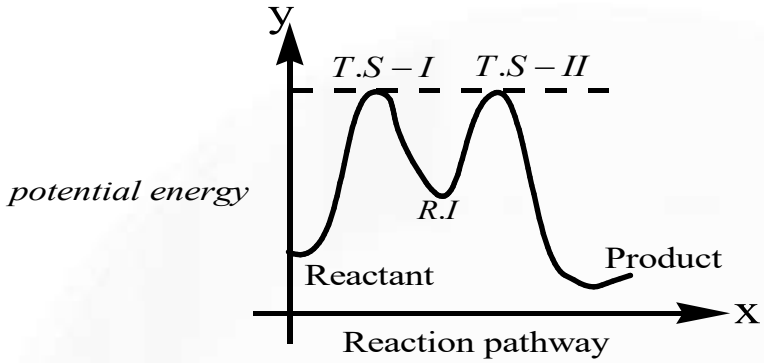
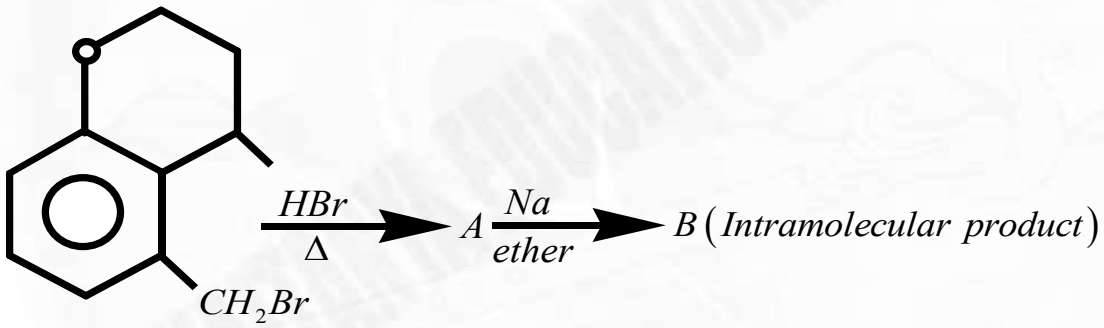


4)

66. Vitamin-C $\xrightarrow[10\%\ aqueous\ NaH\ CO_3]{^{14}} gas\uparrow$. Evolved gas in the product is

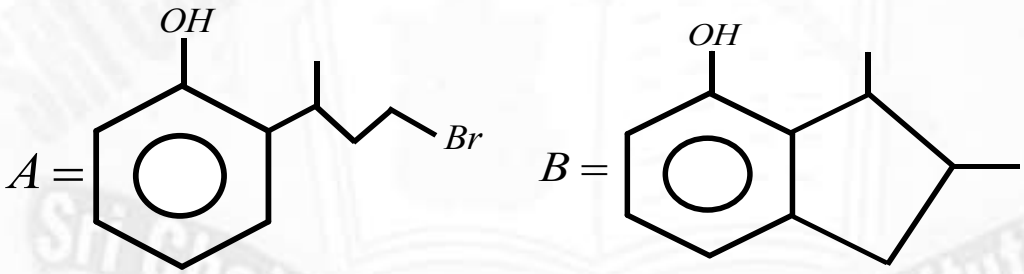
1) $^{14}CO_2$ **2)** $^{12}CO_2$ **3)** SO_2 **4)** can not liberate any gas

67.



Structure of A and B will be

1)



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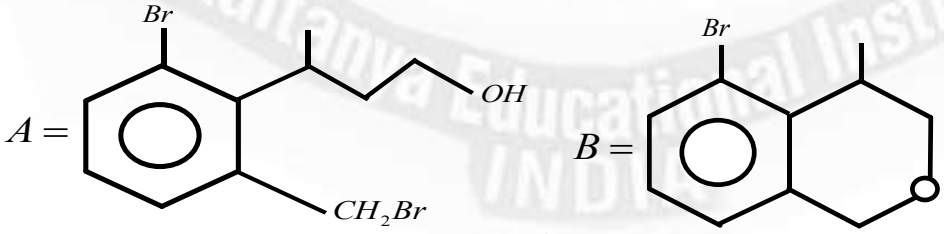
2)



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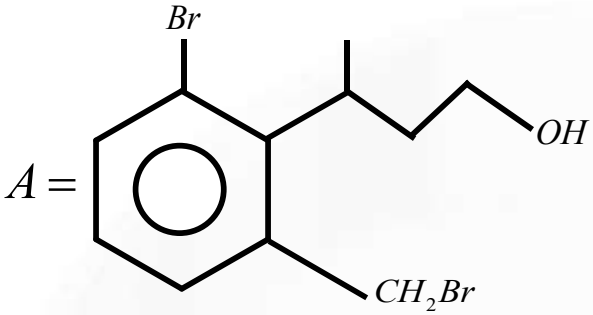
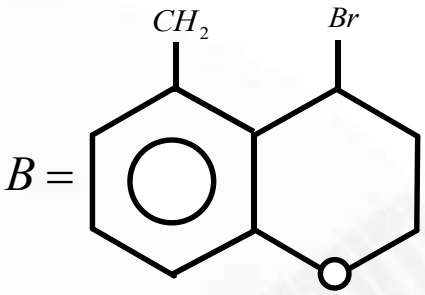
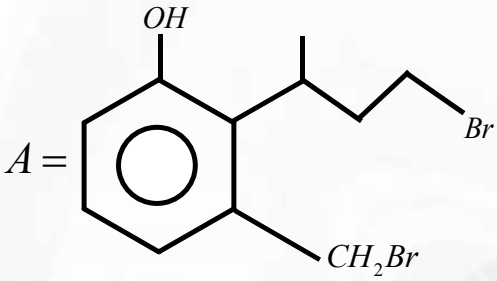
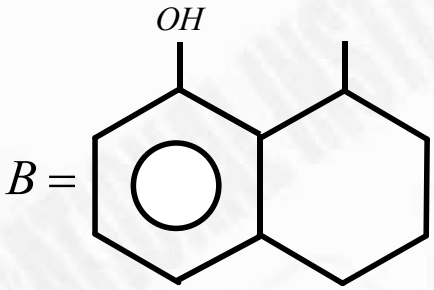
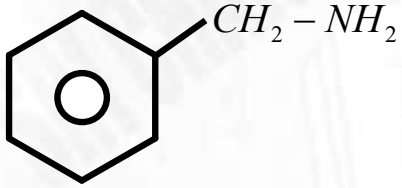
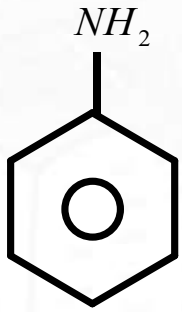
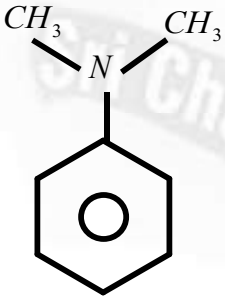
3)  , 

4)  , 

68. Which of the following compound in $HCl + NaNO_2 / 0 - 5^0 C$ will form a coloured dye on reaction with $\beta - Naphthol$ in aq $NaOH$

1) 

2) 

3) 

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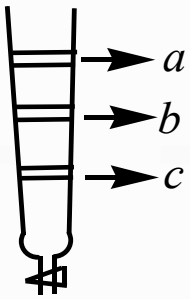
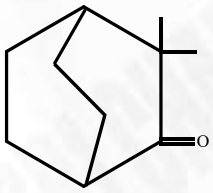
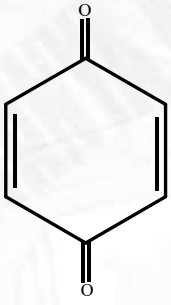
69. From the figure of column chromatography given below identify the correct statement

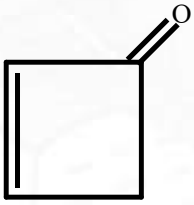


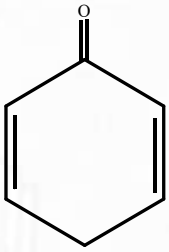
A) compound "c" is more polar than "a" and "b"
B) compound "a" is least polar
C) compound "b" comes out of the column before "c" and after "a"
D) compound "a" spend more time in the column
Choose the correct answer from the options given below
1) A, B, D only **2)** B and D only **3)** only D **4)** A, B, C only

70. Compound which can exhibit stable keto enol tautomerism

1) 

2) 

3) 

4) 

SECTION-II (NUMERICAL VALUE TYPE)

This section contains **5 Numerical Value Type Questions.** The Answer should be within **0 to 9999.** If the Answer is in **Decimal** then round off to the **Nearest Integer** value (Example i,e. If answer is above **10** and less than **10.5** round off is **10** and If answer is from **10.5** and less than **11** round off is **11**).
Marking scheme: +4 for correct answer, 0 if not attempt and -1 in all other cases

71. A soft drink was bottled with partial pressure of CO_2 of $6\,bar$ over the liquid at room temperature. The partial pressure of CO_2 over the solution approaches a value of 60 bar when 88g of CO_2 is dissolved in 1kg of water at room temperature. The approximate pH of the soft drink is _____ $\times 10^{-1}$.
(first dissociation constant of $H_2CO_3 = 4.0 \times 10^{-7}$, $\log 2 = 0.3$
density of the soft drink $= 1 gml^{-1}$)

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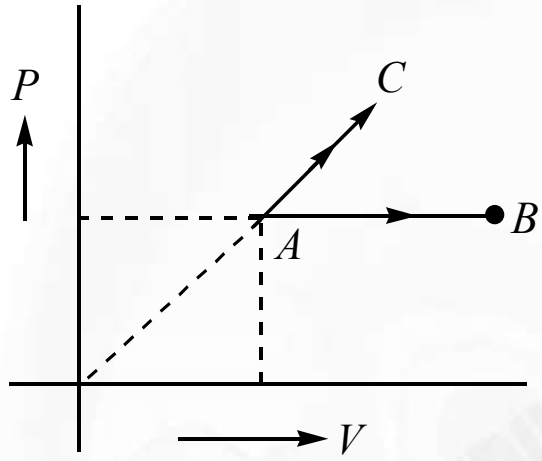
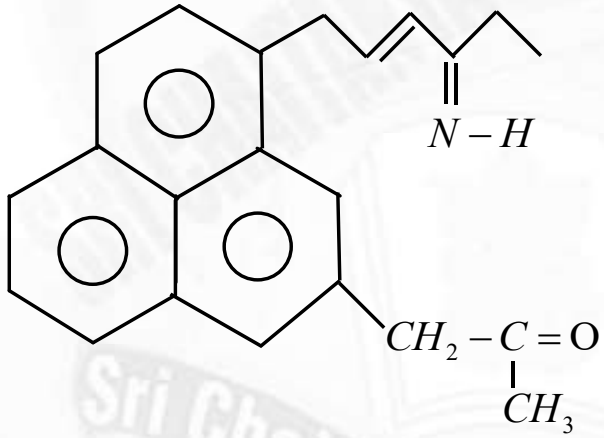
72. Two mole ideal diatomic gas is heated according to path AB and AC. If the temperature of state B and state C are equal. Calculate $\frac{q_{AC}}{q_{AB}} \times \frac{7}{6}$ (Assume ideal diatomic gas at low temperature)



73. Radius ratio of second orbit of He^{+} and fourth orbit of Be^{+3} is $x \times 10^{-1}$. Value of 'x' is

74. Number of electrophilic centre in the given compound is _____



75. oxidation number of Mn in potassium manganate is _____

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34 RANK	40 RANK	43 RANK	46 RANK	49 RANK	52 RANK	53 RANK	57 RANK
SANVI JAIN Appl.No. 240310150036'	VISHARAD SRIVASTAVA Appl.No. 240310046262'	T JAYADEV REDDY Appl.No. 240310167365	ISHAAN GUPTA Appl.No. 240310100229'	MAVURU JASWITH Appl.No. 240310542275'	DORISALA SRINIVASA REDDY Appl.No. 240310682440'	ARCHIT RAHUL PATIL Appl.No. 240310512311'	KRISHNA AGRAWAL Appl.No. 240310285850'

60 RANK	68 RANK	70 RANK	76 RANK	92 RANK	93 RANK	95 RANK	96 RANK	98 RANK
AYUSH GANGAL Appl.No. 240310270709	PALAGIRI SATHISH REDDY Appl.No. 240310905497	MD K GHOUSE MOHIUDDIN Appl.No. 240310176352	T V S SAI NAGA BHUSHAN Appl.No. 240310868568	M M PRUTHVI RAJ Appl.No. 240311084545	M SAI SIVA LOCHAN Appl.No. 240310866829'	RAJDEEP MISHRA Appl.No. 240310265621'	MANOJ SOHAN GAJULA Appl.No. 240310529661	KRISH NARSARIA Appl.No. 240310028286'

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