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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: 10-01-2025**
Time: 09.00Am to 12.00Pm	**GTM-16/11**	**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 **75Questions.** 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.

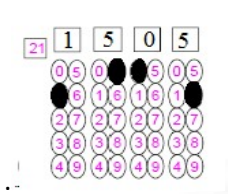
   Marking scheme: +4 for correct answer, **0** if not attempt and **-1** in all other cases.

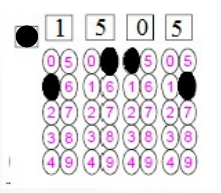
   (II) Section-II contains **05Numerical Value Type Questions.**

- 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: _____**

10-01-2025_Sr.S60_Elite, Target & LIIT-BTs_Jee-Main-GTM-16/11_Test Syllabus

MATHEMATICS : TOTAL SYLLABUS

PHYSICS : TOTAL SYLLABUS

CHEMISTRY : TOTAL SYLLABUS

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. If T_{r+1} is the term independent of x in $\left(\sqrt{a}\,x^2+\frac{1}{2x^3}\right)^{10}$ then $r=$ ____

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

2. Two dice are rolled. If the probability of getting different numbers on the these dice is $\frac{p}{q}$ where p,q are relatively prime then q – p is ____

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

3. If $A=\begin{bmatrix}2 & 2\\ 9 & 4\end{bmatrix}$ and $I=\begin{bmatrix}1 & 0\\ 0 & 1\end{bmatrix}$ then $20A^{-1}=$ ____

1) $2A-12I$ **2)** $A-6I$ **3)** $A+6I$ **4)** $2A+12I$

4. Let $S=\{\theta\in[0,2\pi]:2\cos^2\theta+3\sin\theta=0\}$ then number of elements of S is ____

1) 2 **2)** 3 **3)** 1 **4)** 0

5. The Domain of the function $f(x)=\sqrt{3-x}+\sqrt{2+x}$ is

1) $[-2,3]$ **2)** $[-3,2]$ **3)** $[-3,-2]$ **4)** $[-2,2]$

6. $\lim\limits_{x\to 0}\frac{x\tan 4x}{\sin^2 x}$ is_____

1) 16 **2)** 2 **3)** 4 **4)** 1

7. Let $f(x)$ be a differentiable function at $x=a, f^1(a)=4, f(a)=2$. Then $\lim\limits_{x\to a}\frac{xf(a)-af(x)}{x-a}$ is equal to

1) 2a – 4 **2)** 2 – 4a **3)** 4a – 2 **4)** 4 – 2a

8. The interval in which $f(x)=x^x\,(x>0)$ is strictly decreasing

1) $\left(0,\frac{1}{e}\right)$ **2)** $\left(0,\frac{1}{e^2}\right)$ **3)** $\left(\frac{1}{e},\infty\right)$ **4)** $\left(\frac{1}{e^2},\infty\right)$

9. If $\int_0^1 \frac{1}{\sqrt{2+x}+\sqrt{1+x}}dx = a+b\sqrt{2}+c\sqrt{3}$ where a, b, c are rationals then $3a-3b+c=$ ___

1) 10 **2)** 12 **3)** 14 **4)** 16

10. $\lim_{n\to\infty}\left(\frac{1}{1+n}+\frac{1}{2+n}+\frac{1}{3+n}+\ldots+\frac{1}{n+n}\right)=$

1) $\log_e^2$ **2)** $\log_e^3$ **3)** $\log_e^4$ **4)** $\log_e^5$

11. Area of the region bounded by $y=x$ and $y=x^2$ is _____

1) $\frac{1}{4}$ **2)** $\frac{1}{3}$ **3)** $\frac{1}{5}$ **4)** $\frac{1}{6}$

12. In column I differential equations are given in column II their solutions are given then match them

	Column I		Column II
A)	$y\frac{dy}{dx}+x=0$	p)	$2y=x^2+c$
B)	$x\frac{dy}{dx}+y=0$	q)	$x^2+y^2=c$
C)	$\frac{dy}{dx}=x$	r)	$xy=c$
D)	$\frac{dx}{dy}=y$	s)	$y^2=2x+c$

1) $A-r,B-q,C-p,D-s$ **2)** $A-q,B-r,C-p,D-s$

3) $A-s,B-q,C-p,D-r$ **4)** $A-p,B-q,C-r,D-s$

13. In a parallelogram ABCD, A(1,2), B(3,4),C(2,5) then length of the side AD is equal to

1) $\sqrt{3}$ **2)** $\sqrt{2}$ **3)** $\sqrt{5}$ **4)** $\sqrt{7}$

14. Statement-I: If four distinct points (2k,3k) (1,0)(0,1)(0,0) are concyclic then k = 5/13 is only the value for k.

Statement-II: There will be two value for k in the above case

1) Statement-I is true, Statement-II is true

2) Statement-I is false, Statement-II is true

3) Statement-I is true, Statement-II is false

4) Statement-I is false, Statement-II is false

15. Vertex of the parabola is (2,-1) and equation of the directrix is $4x-3y=21$.Then length of the latusrectum is

1) 2 **2)** 8 **3)** 12 **4)** 16

16. If a hyperbola has length of its conjugate axis is equal to 5 and distance between foci is 13. Then eccentricity of the hyperbola is____

1) $\frac{13}{12}$ **2)** 2 **3)** $\frac{13}{6}$ **4)** $\frac{13}{8}$

17. If α,β are the roots of $x^2-6x-2=0$. If $a_n=\alpha^n-\beta^n$ for $n\geq 1$.Then the value of $\frac{a_{12}-2a_{10}}{3a_{11}}$ is_____

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

18. The number of common terms in the progressions 4,9,14,19……upto 25^{th} term and 3,6,9,12……..upto 35^{th} term is ____

1) 9 **2)** 5 **3)** 7 **4)** 8

19. Let $A=\{\theta\in(0,\pi):\frac{1+2i\sin\theta}{1-i\sin\theta}\ is\ purley\ imaginary\}$. Then sum of the elements of A is ____

1) π **2)** 2π **3)** 4π **4)** 3π

20. The number of 5 digit numbers, greater than 70000 that can be formed, using the digits 3,5,6,7,8 with out repetition is ____

1) 120 **2)** 168 **3)** 220 **4)** 48

SECTION-II (NUMERICAL VALUE TYPE)

This section contains **5Numerical 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. If $\bar{a}=\bar{i}+\lambda\bar{j}-3\bar{k}$, $\bar{b}=3\bar{i}-\bar{j}+2\bar{k}$ if $\bar{a},\bar{b}$ are perpendicular then $|\lambda|=$ ____

22. If the shortest distance between the lines $\frac{x-4}{1}=\frac{y+1}{2}=\frac{z}{-3}$ and $\frac{x-\lambda}{2}=\frac{y+1}{4}=\frac{z-2}{-5}$ is $\frac{6}{\sqrt{5}}$. Then sum of all possible values of λ is_____

23. The mean and median of the following 5 numbers in the increasing order 5,10, x, 15,y are 30 and 12 then y/x is_____

24. The minimum number of elements that must be added to the relation $R=\{(a,b)(b,c)\}$ on the set $\{a,b,c\}$ so that it is an equivalence relation is _____

25. A is 3×3 matrix and $|A|=4$ then $|adj(adjA)|=4^k$.Then k is _____

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. Match list I with list II:

	List I		List II
(a)	Torque	(i)	MLT^{-1}
(b)	Impulse	(ii)	MT^{-2}
(c)	Tension	(iii)	ML^2T^{-2}
(d)	Surface tension	(iv)	MLT^{-2}

Choose the most appropriate answer from the options given below:

1) (a)-(iii), (b)-(iv), (c)-(i), (d)-(ii) **2)** (a)-(iii), (b)-(i), (c)-(iv), (d)-(ii)

3) (a)-(i), (b)-(iii), (c)-(iv),(d)-(ii) **4)** (a)-(ii), (b)-(i), (c)-(iv), (d)-(iii)

27. While measuring the speed of sound by performing a resonance column experiment, a student gets the first resonance condition at a column length of 18 cm during winter. Repeating the same experiment during summer, she measures the column length to be x cm for the second resonance. Then

1) 18 > x **2)** x > 54 **3)** 54 > x > 36 **4)** 36 > x > 18

28. Water flows into a large tank with flat bottom at the rate of $10^{-4} m^3 s^{-1}$. water is also leaking out of a hole of area $0.5 cm^2$ at its bottom. If the height of the water in the tank remains steady, then this height is $g = 10 m/s^2$

1) 25 cm **2)** 15 cm **3)** 20 cm **4)** 5 cm

29. Assertion (A): Work function of aluminium is 4.2 eV. Emission of electron will not be possible if two photons each of energy 2.5 eV strike an electron of a aluminium

Reason (R): For photoelectron emission the energy of each photon should be greater than the work function of metal

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

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

3) A is true and R is false

4) A is false and R is true

30. A flask contains argon and oxygen in the ratio of 3:2 in mass and the mixture is kept at 27^0C. The ratio of their average kinetic energy per molecule respectively will be

1) 3:2 **2)** 9:4 **3)** 3:5 **4)** 1:1

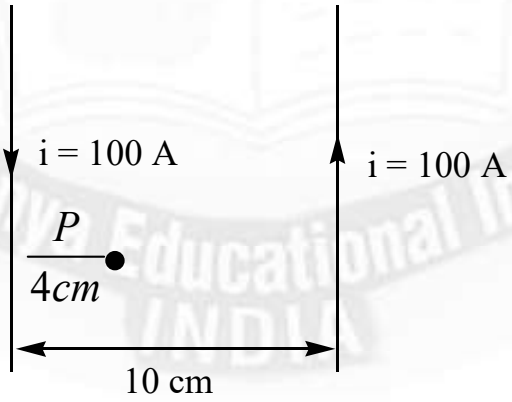
31. An unpolarised light beam of intensity $2I_0$ is passed through a polaroid P and then through another polaroid Q which is oriented in such a way that its passing axis makes an angle of 60º relative to that of P. The intensity of the emergent light is

1) $\frac{I_0}{4}$ **2)** $\frac{I_0}{2}$ **3)** $\frac{3I_0}{4}$ **4)** $\frac{3I_0}{2}$

32. Four identical charges each of charge q are placed at the corners of a square. Then at the centre, the resultant electric intensity E and the net electric potential V are

1) $E \neq 0, V = 0$ **2)** $E = 0, V = 0$ **3)** $E = 0, V \neq 0$ **4)** $E \neq 0, V \neq 0$

33. Two long wires are placed parallel to each other 10cm apart as shown in fig. The magnetic field at point P is



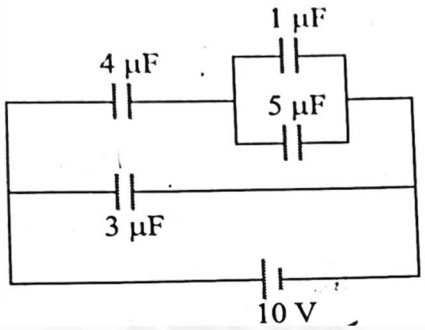
1) $5/6\times10^{-3}T$ directed perpendicular into the paper

2) $1/3\times10^{-3}T$ directed perpendicular out of the paper

3) $5/6\times10^{-3}T$ directed perpendicular out of the paper

4) $1/6\times10^{-3}T$ directed perpendicular into the paper

34. In the given circuit, the charge on 3 μF capacitor will be



1) $5.0\,\mu C$ **2)** $24\,\mu C$ **3)** $30\,\mu C$ **4)** $9.6\,\mu C$

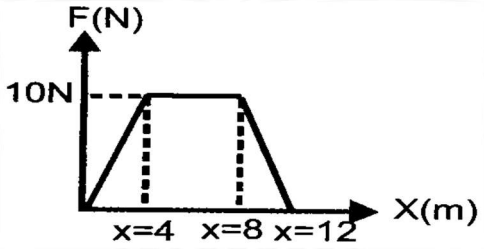
35. Find the displacement current developed in the space between the plates of parallel plate capacitor of capacity $2\mu F$ when voltage is changing at a rate of $10^6 Vs^{-1}$.

1) 2A **2)** $2\mu A$ **3)** 2 mA **4)** $20\mu A$

36. Two rings of the same radius R and mass M are placed such that their centres coincides and their planes are perpendicular to each other. The moment of inertia of the system about an axis passing through the common centre and perpendicular to the plane of one of the rings is

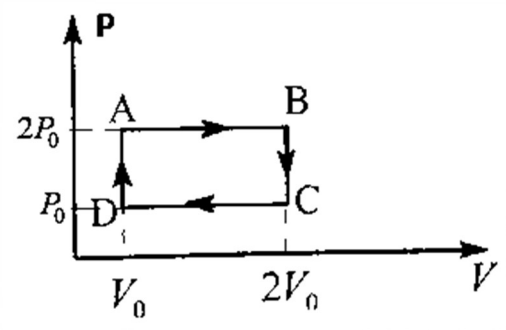
1) $\frac{MR^2}{2}$ **2)** MR^2 **3)** $\frac{3MR^2}{2}$ **4)** $2MR^2$

37. A particle of mass 0.1 Kg is subjected to a force which varies with distance as shown. If it starts its journey from rest at $x=0$,then its velocity at $x=12m$ is



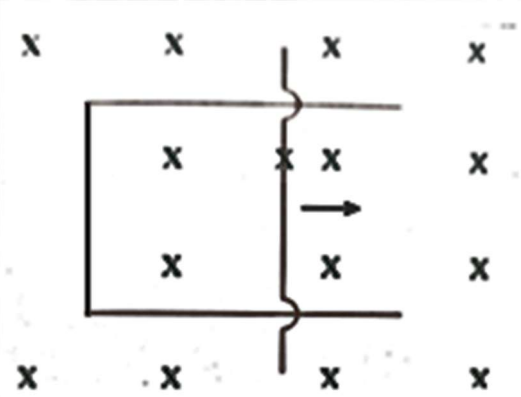
1) $0\,m/s$ **2)** $20\sqrt{2}\,m/s$ **3)** $20\sqrt{3}\,m/s$ **4)** $40\,m/s$

38. Two moles of an ideal monoatomic gas undergo a cyclic process $A \to B \to C \to D \to A$ as shown P-V diagram. Find the net work done in one cycle is



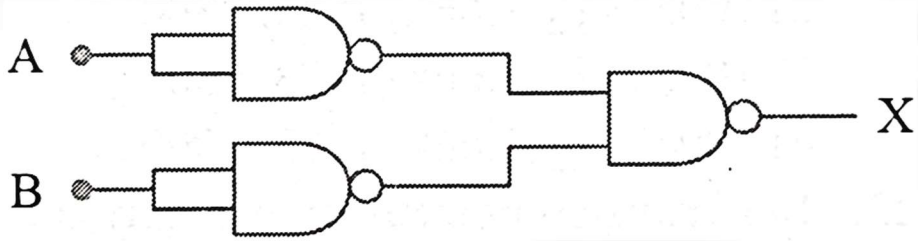
1) 0 **2)** P_0V_0 **3)** $2P_0V_0$ **4)** $4P_0V_0$

39. A conducting rod PQ of length 1 m is moving with uniform velocity of 2 m/s in a uniform magnetic field of 2T directed into the plane of paper. Find the induced emf in the rod



1) 4V **2)** 2V **3)** 10V **4)** V

40. The combination of gates shown below yields



1) NAND gate **2)** OR gate **3)** NOT gate **4)** XOR gate

41. A particle is moving in a circle of radius R = 1 m with constant speed v = 4 m/s. The ratio of the displacement to acceleration of the foot of the perpendicular drawn from the particle onto the diameter of the circle is

1) $\frac{1}{16}s^2$ **2)** $\frac{1}{2}s^2$ **3)** $2s^2$ **4)** $16s^2$

42. If 200 MeV energy is released per fission of $_{92}U^{235}$, how many fissions must occur per second to produce a power of 1 mW?

1) 3.125×10^{9} **2)** 3.125×10^{8} **3)** 3.125×10^{10} **4)** 3.125×10^{7}

43. This question has statement –I and statement-II of the four choices given after the statements. Choose the one that best describes the two statements.

Statement-I: If the accelerating potential in an x-ray machine is decreased, the minimum value of the wavelength of the emitted x-rays gets increased.

Statement-II: The minimum value of the wavelength of the emitted x-rays is inversely proportional to the accelerating potential

1) Statement I and statement II are true and statement II is correct explanation of statement I
2) Statement I and statement II are true but the statement II is not the correct explanation of statement I
3) Statement I is true but statement II is false
4) Statement I and statement II are false

44. This question has statement –I and statement-II of the four choices given after the statements. Choose the one that best describes the two statements.

Statement-I: A capillary tube is dipped in a liquid rises to a height h in it. As the temperature of the liquid is raised, the height h decreases (if the density of the liquid and the angle of contact remain the same)

Statement-II: Surface tension of a liquid decreases with the rise in its temperature.

1) Statement I and statement II are true and statement II is correct explanation of statement I

2) Statement I and statement II are true but the statement II is not the correct explanation of statement I

3) Statement I is true but statement II is false

4) Statement I and statement II are false

45. Assertion: Kinetic friction is a self adjusting force in magnitude and direction

Reason: Friction does not depends on mass of the body

1) If both assertion and reason are true and reason is a correct explanation of assertion

2) If both assertion and reason are true but reason is not the correct explanation of assertion

3) If assertion is true but reason is false

4) If both assertion and reason are false

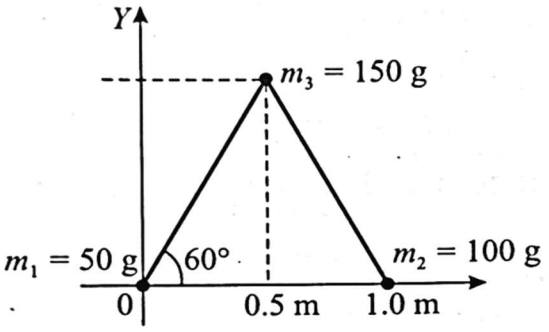
SECTION-II(NUMERICAL VALUE TYPE)

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** andIf 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. A particle is projected from ground at an angle 45° with initial velocity $20\sqrt{2}\,ms^{-1}$. Find the velocity of particle at 2 sec in m/s ($g = 10m/s^2$)

47. Three particles of masses 50g, 100g and 150 g are placed at the vertices of an equilateral triangle of side 1 m (as shown in the figure). The x coordinates of the centre of mass is $\left(\frac{x}{12}\right)m$ find the x value?



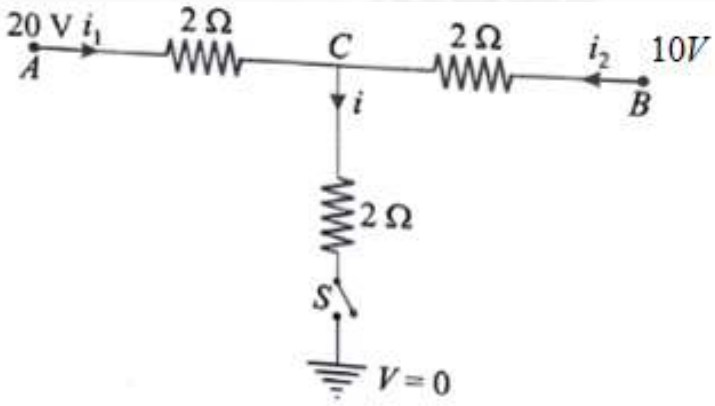
48. A thin lens made of glass (refractive index = 1.5) of focal length $f = 16\,cm$ is immersed in a liquid of refractive index 1.42. If its focal length in liquid is f_1, then the ratio f_1 / f is closest to the integer

49. In an ac circuit V and I are given by $V = 100\sin(100t)\,Volt$

$$I = 1000\sin\left(100t + \frac{\pi}{3}\right) mA$$

The power dissipated in the circuit in watt

50. When the switch S, in the circuit shown, is closed, then find the potential at junction 'C' _____ (V)



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. The work function ϕ of some metals is listed below the number of metals which will show photo electric effect when light of 300 nm wave length falls on the metal is

metal	Li	Na	K	Mg	Cu	Ag	Fe	Pt	W
$\phi(eV)$	2.4	2.3	2.2	3.7	4.8	4.3	4.7	6.3	4.75

1) 9 **2)** 6 **3)** 2 **4)** 4

52. $KMnO_4$ Oxidizes $X^{n+}ion$ to XO_3^- in acid solution. 2.5×10^{-3} mole of X^{n+} requires 1.5×10^{-3} mole of MnO_4^- . Value of n?

1) 2 **2)** 4 **3)** 3 **4)** 6

53. Given below are two statements:

Statement I: Sucrose is leavo rotatory but after hydrolysis gives dextrorotatory glucose and leavo rotatory fructose

Statement II: Hydrolysis of sucrose brings about a change in the sign of rotation, from dextro (+) to leavo (-) and the product is named as invert sugar

1) Statement I is correct and statement II is incorrect

2) Statement I is incorrect and statement II is correct

3) Statement I and statement II both are correct

4) Statement I and statement II both are incorrect

54. The value of K_C is 64 at 800 K for the reaction $N_2(g)+3H_2(g)\rightleftharpoons 2NH_3(g)$ the value of K_C for the following reaction is: $2NH_3(g)\rightleftharpoons N_2(g)+3H_2(g)$

1) 8 **2)** $\frac{1}{8}$ **3)** $\frac{1}{4}$ **4)** $\frac{1}{64}$

55. Which of the following solutions shows positive deviation from Raoult's law?

1) Benzene + Toulene **2)** Acetone + Ethanol

3) n-hexane + n-heptane **4)**chloro ethane + bromo ethane

56. Given below are two statements

Statement I : If both ΔH^0 and ΔS^0 are positive then reaction will be spontaneous at high temperature

Statement II: All process with positive entropy change are spontaneous

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

1) Both statement I and statement II are incorrect

2) Statement I is correct but statement II is incorrect

3) Statement I is incorrect but statement II is correct

4) Both statements I and statements II are correct

57. Radioactive disintegration is an example of

1) zero order reaction **2)** first order reaction

3) second order reaction **4)** third order reaction

58. Which of the following ion is the most stable?

1) Sn^{2+} **2)** Ge^{2+} **3)** Si^{2+} **4)** Pb^{2+}

59. Which is the correct arrangement of the compounds based on their bond strength?

1) $HF > HCl > HBr > HI$ **2)** $HI > HBr > HCl > HF$

3) $HCl > HF > HBr > HI$ **4)** $HF > HBr > HCl > HI$

60. The correct order of number of unpaired electrons is

1) $Cu^{2+} > Ni^{2+} > Cr^{3+} > Fe^{3+}$ **2)** $Ni^{2+} > Cu^{2+} > Fe^{3+} > Cr^{3+}$

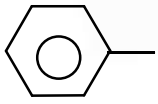
3) $Fe^{3+} > Cr^{3+} > Ni^{2+} > Cu^{2+}$ **4)** $Cr^{3+} > Fe^{3+} > Ni^{2+} > Cu^{2+}$

61. For one molal aqueous solution, of the following compounds, which one show the lowest freezing point?

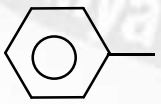
1) $[Co(H_2O)_5Cl]Cl_2.H_2O$ **2)** $[Co(H_2O)_4Cl_2]Cl.2H_2O$

3) $[Co(H_2O)_3Cl_3].3H_2O$ **4)** $[Co(H_2O)_6]Cl_3$

62. Decreasing order of acidic strength is



a



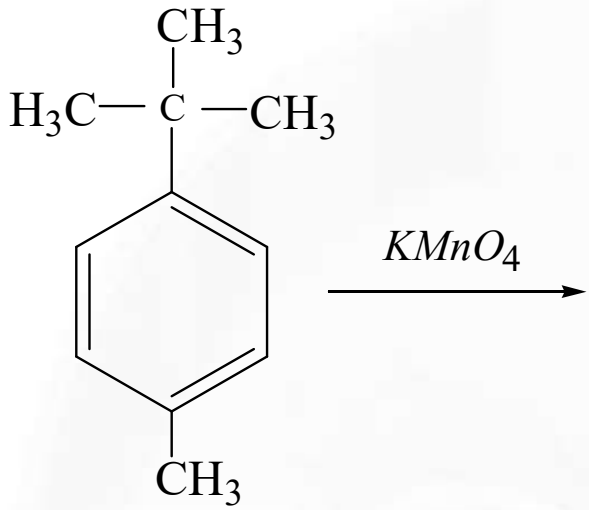
b

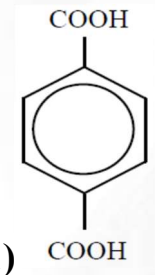
C_2H_5OH

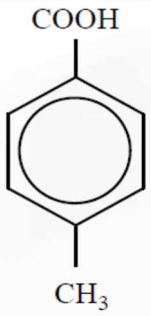
c

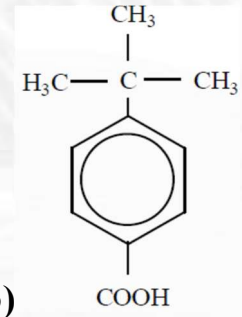
1) a > b > c **2)** b > c > a **3)** c > b > a **4)** c > a > b

63. The major product of the following reaction is



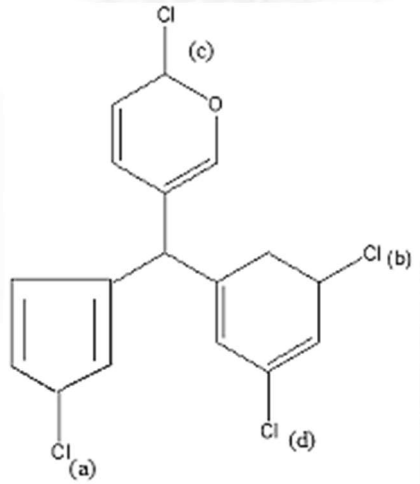
1) 

2) 

3) 

4) 

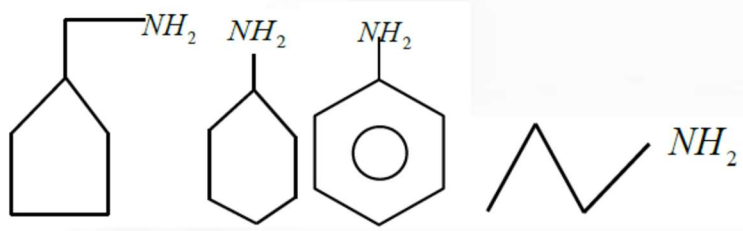
64.



Which Cl will eliminate with fastest rate in the form of Cl^- to form $AgCl$?

1) c **2)** b **3)** a **4)** d

65. How many of the following compounds give carbyl amines on reaction with $CHCl_3$ and Alcoholic KOH



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

66. Identify B and C.

$$CH_3COCH_3 \xrightarrow{CH_3MgBr} B \xrightarrow{H_3O^+} C$$

	B	C
1)	$(CH_3)_3COMgBr$	$(CH_3)_3COH$
2)	$(CH_3)_2CHOMgBr$	CH_3CH_2OH
3)	CH_3CH_2OMgBr	$CH_3-CHOH-CH_3$
4)	$(CH_3)_3COMgBr$	$CH_3-CHOH-CH_3$

67. Assertion : Molarity of 0.02 N solution of HNO_3 is 0.02M

Reason : Molarity and Normality of a solution are always equal for any acid.

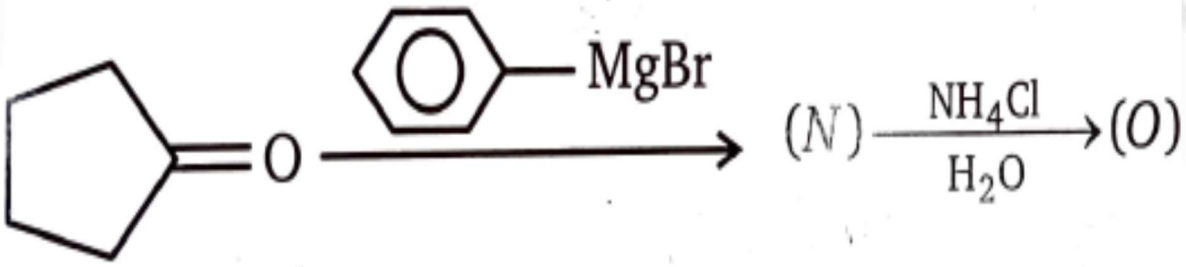
1) If both Assertion and Reason are true and the reason is a correct explanation of the Assertion

2) If both Assertion and Reason are true and the reason is not correct explanation of the Assertion

3) If Assertion is true but the reason is false.

4) If both Assertion and Reason are false.

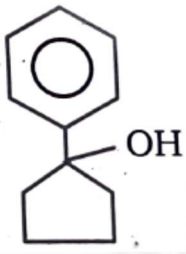
68.



Product (O) will be


1)

2)

3)


4)

69. Assertion : CO_2 is a non-polar molecule

Reason : In the molecule $C-O$ bond is non-polar

1) If both Assertion and Reason are true and the reason is a correct explanation of the Assertion

2) If both Assertion and Reason are true and the reason is not correct explanation of the Assertion

3) If Assertion is true but the reason is false.

4) If both Assertion and Reason are false.

70. Match list I with list II

List I (Molecule)	**List – II (Shape)**
a) NH_3	I) Square pyramid
b) BrF_5	II) Tetrahedral
c) PCl_5	III) Trigonal pyramidal
d) CH_4	IV) Trigonal bipyramidal

Choose the correct answer from the options given below

1) a-IV,b-III,c-I,d-II **2)** a-III,b-IV,c-I,d-II

3) a-III,b-I,c-IV,d-II **4)** a-II,b-IV,c-I,d-III

SECTION-II (NUMERICAL VALUE TYPE)

This sectioncontains **5Numerical 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** andIf 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

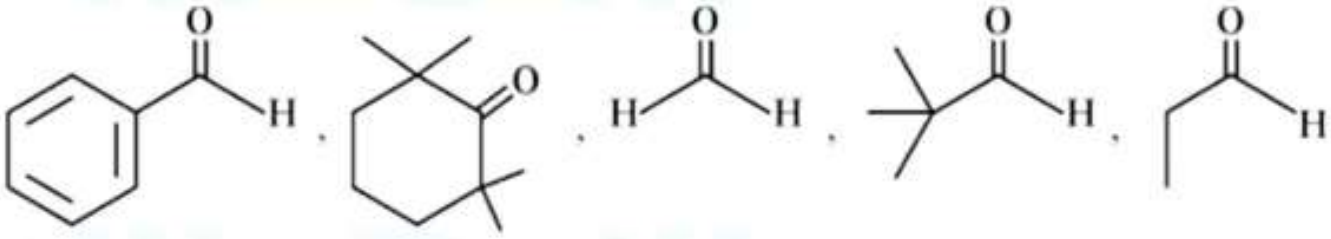
71. Total number of acidic oxides among

$NO_2, SO_2, Cl_2O_7, CaO, Mn_2O_7$

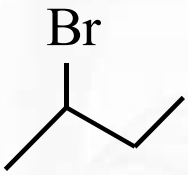
72. Find the total number of non-linear species out of given species:

$I_3^-, BeCl_2, H_2O, XeF_2$

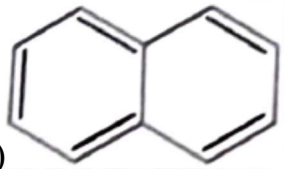
73. Of the following, how many compounds can undergo aldol reaction ?



74. Total number of stereo isomers of the following compound



75. Among the following

a)  b)  c)  d) 

total number of aromatic compounds?

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