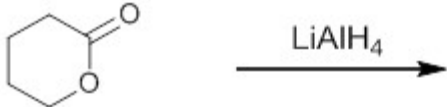
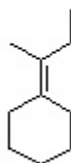
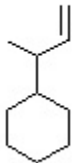
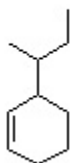
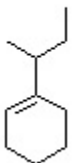
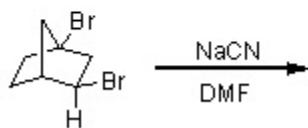


Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	1	<p>If a chiral molecule has an absolute configuration of R, which direction does it rotate the plane of polarized light?</p> <p>A1 : Clockwise (dextrorotatory)</p> <p>A2 : Counterclockwise (levorotatory)</p> <p>A3 : It doesn't rotate the plane of polarized light</p> <p>A4 Can't be determined from the information given – (Correct Alternative)</p>	1.0	0.25
Objective Question				
2	2	<p>Which is the MAJOR product of the following reaction?</p> <div style="text-align: center;">  </div> <p>A1 : HOOC-CH₂-CH₂-CH₂-CH₂-OH</p> <p>A2 : HO-CH₂-CH₂-CH₂-CH₂-CH₂-OH – (Correct Alternative)</p> <p>A3 : HO-CH₂-CH₂-CH₂-CH₂-OH</p> <p>A4 : OHC-CH₂-CH₂-CH₂-CH₂-OH</p>	1.0	0.25
Objective Question				
3	3		1.0	0.25

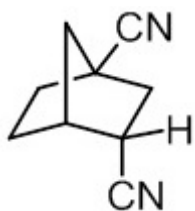
		<p>The stability order of the given alkenes based on their energy is:</p> <div><div><p>(a)</p></div><div><p>(b)</p></div><div><p>(c)</p></div><div><p>(d)</p></div></div> <p>A1 $b < c < d < a$ – (Correct Alternative)</p> <p>A2 $b < c < a < d$</p> <p>A3 $b < d < c < a$</p> <p>A4 $b < d < a < c$</p>	0	5
Objective Question				
4	4	<p>What is the purpose of the FeBr₃ catalyst in an electrophilic aromatic substitution halogenation?</p> <p>A1 It serves as a radical initiator.</p> <p>A2 It destabilizes the carbocation intermediate.</p> <p>A3 It acts as a Lewis acid to activate Br₂. – (Correct Alternative)</p> <p>A4 None of the above.</p>	1. 0	0.2 5
Objective Question				
5	5		1. 0	0.2 5

The structure of the major product in the following reaction is:



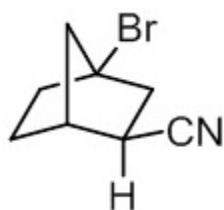
A1

:



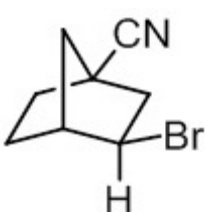
A2

:



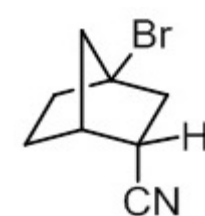
A3

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A4

:



– (Correct Alternative)

Objective Question

6

6

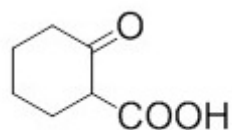
Which of the following acid does not decarboxylate on heating?

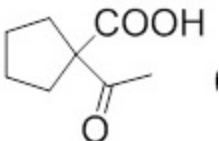
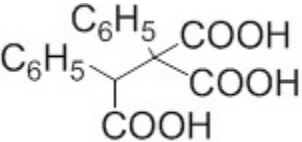
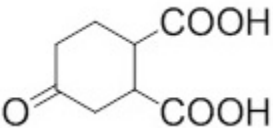
1.
0

0.2
5


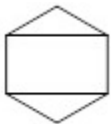

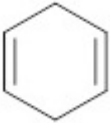
A1

:



		<p>A2 : </p> <p>A3 : </p> <p>A4 :  – (Correct Alternative)</p>		
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Objective Question

7	7	<p>The ^1H NMR spectrum of a C_6H_8 hydrocarbon displays a single sharp signal. Its ^{13}C NMR spectrum has two resonance signals. Which one of the following compounds would fit this evidence?</p> <p>A1 :  – (Correct Alternative)</p> <p>A2 : </p> <p>A3 : </p> <p>A4 : </p>	1. 0	0.2 5
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Objective Question

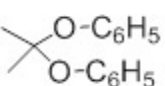
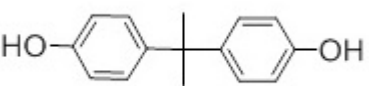
8	8	What reagent is used in the Hinsberg test of amines?	1. 0	0.2 5
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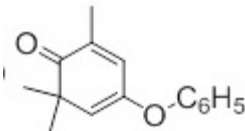
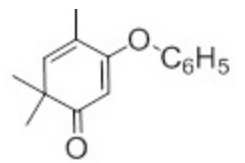
		<p>A1 $(\text{CH}_3\text{CO})_2$ and pyridine :</p> <p>A2 $\text{C}_6\text{H}_5\text{SO}_2\text{Cl}$ in aq. NaOH : – (Correct Alternative)</p> <p>A3 NaNO_2 in aq. H_2SO_4 :</p> <p>A4 CH_3I (excess) followed by AgOH :</p>		
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Objective Question

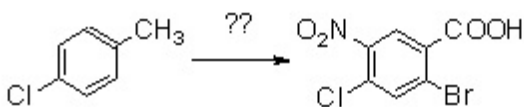
9	9	<p>Which of the following is not a component of RNA?</p> <p>A1 Adenine :</p> <p>A2 Phosphate :</p> <p>A3 Cytosine :</p> <p>A4 Thymine – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

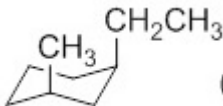
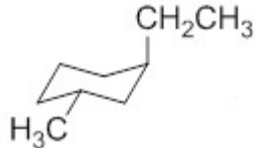
10	10	<p>Phenol reacts with acetone in the presence of conc. sulphuric acid to form a $\text{C}_{15}\text{H}_{16}\text{O}_2$ product. Which of the following compounds is this product?</p> <p>A1 : </p> <p>A2 : </p> <p>– (Correct Alternative)</p>	1. 0	0.2 5
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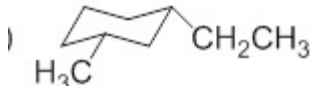
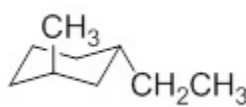
		<p>A3 :</p> 		
		<p>A4 :</p> 		

Objective Question

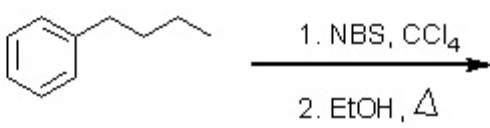
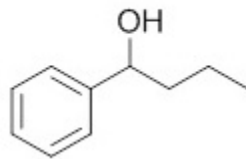
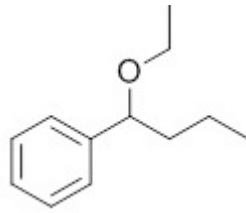
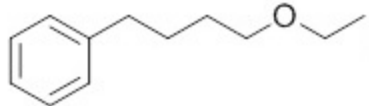
11	11	<p>Which of the following procedure would be the best for achieving the following reaction?</p>  <p>A1 A) $\text{Br}_2 + \text{FeBr}_3$; B) KMnO_4 and heat; C) HNO_3 and H_2SO_4 (Correct Alternative)</p> <p>A2 A) KMnO_4 and heat; B) $\text{Br}_2 + \text{FeBr}_3$; C) HNO_3 and H_2SO_4</p> <p>A3 A) NBS in CCl_4 and heat; B) KMnO_4 and heat; C) HNO_3 and H_2SO_4</p> <p>A4 A) NBS in CCl_4 and heat; B) NaNO_2; C) KMnO_4 and heat</p>	1.0	0.25
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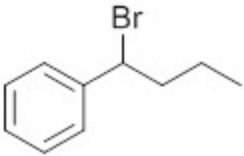
Objective Question

12	12	<p>Which of the following is the most stable conformation of trans-1-ethyl-3-methylcyclohexane?</p> <p>A1</p>  <p>A2</p> 	1.0	0.25
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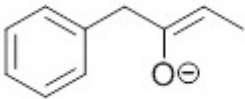
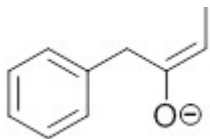
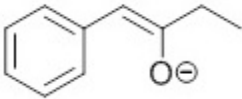
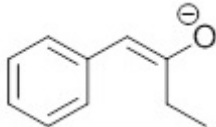
		<p>A3 :</p>  <p>A4 :</p>  <p>– (Correct Alternative)</p>		
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Objective Question

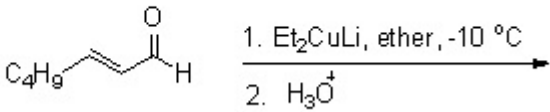
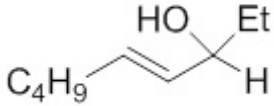
13	13	<p>Give the product of the following reaction:</p>  <p>A1 :</p>  <p>A2 :</p>  <p>– (Correct Alternative)</p> <p>A3 :</p> 	1. 0	0.2 5
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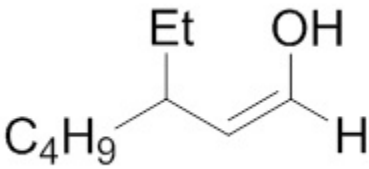
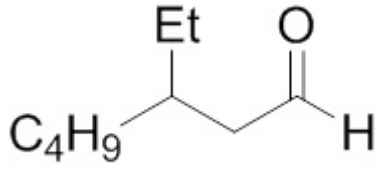
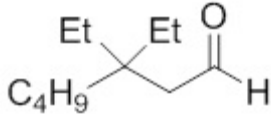
		<p>A4 :</p> 		
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Objective Question

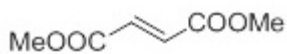
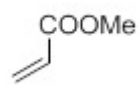
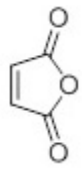
14	14	<p>Which enolate derived from 1-phenyl butan-2-one is most stable?</p> <p>A1 :</p>  <p>A2 :</p>  <p>A3 :</p>  <p>– (Correct Alternative)</p> <p>A4 :</p> 	1. 0	0.2 5
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Objective Question

15	15	<p>Give the major product of the following reaction.</p> <div style="text-align: center;">  </div> <p>A1 :</p> 	1. 0	0.2 5
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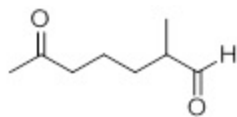
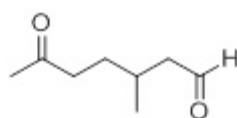
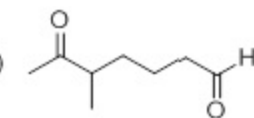
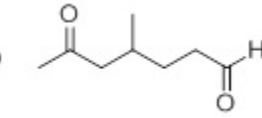
		<p>A2 :</p>  <p>A3 :</p>  <p>– (Correct Alternative)</p> <p>A4 :</p> 		
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Objective Question

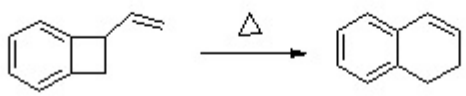
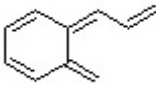
16	16	<p>Which of the following dienophiles is the most reactive with 1,3-butadiene?</p> <p>A1 :</p>  <p>A2 :</p>  <p>A3 :</p>  <p>– (Correct Alternative)</p>	1. 0	0.2 5
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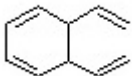
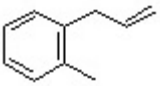
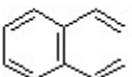
		<p>A4 :</p> 		
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Objective Question



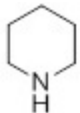
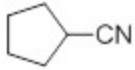
17	17	<p>Which of the following is the main product in the ozonolysis of 1,4-dimethyl cyclohexene followed by a reductive workup with zinc and ethanoic acid?</p> <p>A1 :</p>  <p>A2 :</p>  <p>– (Correct Alternative)</p> <p>A3 :</p>  <p>A4 :</p> 	1. 0	0.2 5
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Objective Question

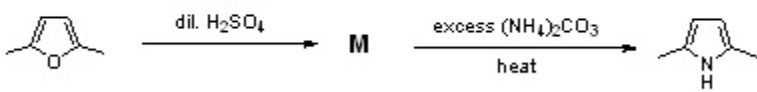
18	18	<p>Which compound is the likely intermediate of the following transformation involving two electrocyclic reactions (ring opening and ring closure)?</p>  <p>A1 :</p>  <p>– (Correct Alternative)</p>	1. 0	0.2 5
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		<p>A2 : </p> <p>A3 : </p> <p>A4 : </p>		
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Objective Question

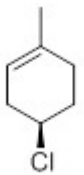
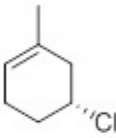
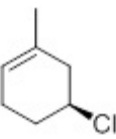
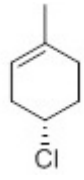
19	19	<p>Which of the following is the strongest Bronsted base?</p> <p>A1 : </p> <p>A2 : </p> <p>A3 :  – (Correct Alternative)</p> <p>A4 : </p>	1. 0	0.2 5
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Objective Question

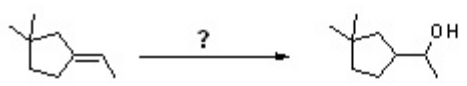
20	20	<p>In the given transformation, the name of intermediate product M is..</p> <p></p> <p>A1 : 2,5-hexanediol</p> <p>A2 : 3,4-hexanedione</p>	1. 0	0.2 5
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		<p>:</p> <p>A3 2,5-hexanedione – (Correct Alternative)</p> <p>:</p> <p>A4 5-hydroxyhexan-2-one</p> <p>:</p>		
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Objective Question

21	21	<p>Which of the following compounds is (S)-4-chloro-1-methylcyclohex-1-ene?</p> <p>A1</p> <p>:</p>  <p>A2</p> <p>:</p>  <p>A3</p> <p>:</p>  <p>A4</p> <p>:</p>  <p>– (Correct Alternative)</p>	1.0	0.25
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Objective Question

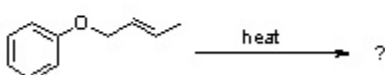
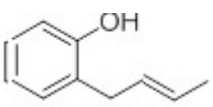
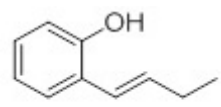
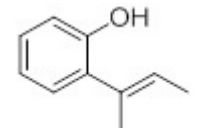
22	22	<p>Which reagent(s) would be best to accomplish the following transformation?</p>  <p>A1 H₃O⁺ & heat</p> <p>:</p>	1.0	0.25
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		<p>A2 (i) HgSO_4 in H_2O (ii) NaBH_4 :</p> <p>A3 (i) B_2H_6 in ether (ii) H_2O_2 and base : – (Correct Alternative)</p> <p>A4 (i) HOBr (ii) Mg in ether base :</p>		
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Objective Question

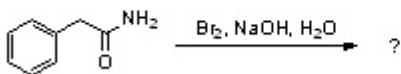
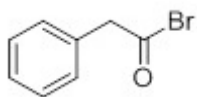
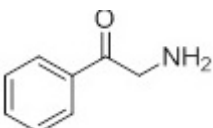
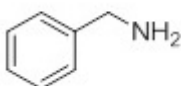
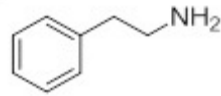
23	23	<p>Which of these methods would serve to prepare 1-phenyl-2-propanol?</p> <p>A1 Addition of methyl Grignard reagent to acetophenone (methyl phenyl ketone). :</p> <p>A2 Addition of phenyl Grignard reagent to acetone (2-propanone). :</p> <p>A3 Acid-catalyzed hydration (addition of water to) of 2-phenyl-1-propene. :</p> <p>A4 Addition of benzyl Grignard reagent to acetaldehyde (ethanal) . : – (Correct Alternative)</p>	1. 0	0.2 5
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Objective Question

24	24	<p>Which of phenols (a)-(d) is the main product of the following thermal rearrangement?</p> <p>  </p> <p>A1  :</p> <p>A2  :</p> <p>A3  :</p>	1. 0	0.2 5
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		<p>A4 :</p>  <p>– (Correct Alternative)</p>		
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Objective Question

25	25	<p>What is the main product of the following reaction of an amide?</p>  <p>A1 :</p>  <p>A2 :</p>  <p>A3 :</p>  <p>– (Correct Alternative)</p> <p>A4 :</p> 	1. 0	0.2 5
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Objective Question

26	26	<p>Which complex shows a spin-only magnetic moment of 2.82 BM?</p> <p>A1 :</p> $[\text{Ni}(\text{CN})_4]^{2-}$ <p>A2 :</p> $\text{Ni}(\text{PPh}_3)_4$ <p>A3 :</p> $[\text{NiCl}_4]^{2-}$ – (Correct Alternative) <p>A4 :</p> $\text{Ni}(\text{CO})_4$	1. 0	0.2 5
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Objective Question				
27	27	<p>The Nitrogen oxide that does not contain N-N bond is</p> <p>A1 : N_2O_5 – (Correct Alternative)</p> <p>A2 : N_2O_4</p> <p>A3 : N_2O_3</p> <p>A4 : N_2O</p>	1. 0	0.2 5
Objective Question				
28	28	<p>The presence of helium in the Sun was first detected by scientists using a knowledge of</p> <p>A1 : infrared spectroscopy</p> <p>A2 : mass spectrometry</p> <p>A3 : emission spectroscopy – (Correct Alternative)</p> <p>A4 : nuclear magnetic resonance (NMR) spectroscopy</p>	1. 0	0.2 5
Objective Question				
29	29	<p>Which ion will be deflected most in the magnetic field of a mass spectrometer?</p> <p>A1 : ${}^{52}_{24}\text{Cr}^{2+}$ – (Correct Alternative)</p>	1. 0	0.2 5

		<p>A2 : ${}^{53}_{24}\text{Cr}^+$</p> <p>A3 : ${}^{53}_{24}\text{Cr}^{2+}$</p> <p>A4 : ${}^{52}_{24}\text{Cr}^+$</p>		
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Objective Question

30	30	<p>Among the ligands NH_3, en, CN^- and CO, the correct order of their increasing field strength, is</p> <p>A1 : $\text{en} < \text{CN}^- < \text{NH}_3 < \text{CO}$</p> <p>A2 : $\text{en} < \text{NH}_3 < \text{CO} < \text{CN}^-$</p> <p>A3 : $\text{NH}_3 < \text{en} < \text{CN}^- < \text{CO}$ – (Correct Alternative)</p> <p>A4 : $\text{CN}^- < \text{NH}_3 < \text{CO} < \text{en}$</p>	1. 0	0.2 5
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Objective Question

31	31	<p>Which of the following complexes show easy oxidation?</p> <p>A1 $(\eta^5\text{-C}_5\text{H}_5)_2\text{Fe}$:</p> <p>A2 $(\eta^5\text{-C}_5\text{H}_5)_2\text{Ru}$:</p> <p>A3 $(\eta^5\text{-C}_5\text{H}_5)_2\text{Co}$ – (Correct Alternative) :</p>	1. 0	0.2 5
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		A4 $(\eta^5\text{-C}_5\text{H}_5)_2\text{Mn}$:		
Objective Question				
32	32	<p>Zn ⁺² is present at the active site of</p> <p>A1 : Carbonic anhydrase – (Correct Alternative)</p> <p>A2 : Hemoglobin</p> <p>A3 : Chymotrypsin</p> <p>A4 : Maltase</p>	1. 0	0.2 5
Objective Question				
33	33	<p>Carbon monoxide poisoning can be cured by</p> <p>A1 : drinking lemon-water</p> <p>A2 : exposing the affected person to fresh oxygen – (Correct Alternative)</p> <p>A3 : consuming multi-vitamin tablets</p> <p>A4 : eating iron tablets</p>	1. 0	0.2 5
Objective Question				
34	34	<p>The noble gas used for the treatment of cancer is</p> <p>A1 : Radon – (Correct Alternative)</p> <p>A2 : Krypton</p> <p>A3 Argon</p>	1. 0	0.2 5

		: A4 Neon :		
Objective Question				
35	35	A key feature of the Fischer-Tropsch process is A1 hydrocarbon formation – (Correct Alternative) : A2 alkene hydrogenation : A3 alkene polymerization : A4 hydroformylation :	1. 0	0.2 5
Objective Question				
36	36	A catalyst accelerates a reaction by, A1 Decreasing the total free energy from reactants to products : A2 Increasing the total free energy from reactants to products : A3 Decreasing the free energy of activation – (Correct Alternative) : A4 Increasing the free energy of activation :	1. 0	0.2 5
Objective Question				
37	37	The difference between molar heat capacity at constant pressure and at constant volume is about, A1 $2 \text{ J K}^{-1} \text{ mol}^{-1}$: A2 $4 \text{ J K}^{-1} \text{ mol}^{-1}$	1. 0	0.2 5

		<p>:</p> <p>A3 $8 \text{ J K}^{-1} \text{ mol}^{-1}$ – (Correct Alternative)</p> <p>:</p> <p>A4 $16 \text{ J K}^{-1} \text{ mol}^{-1}$</p> <p>:</p>		
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Objective Question

38	38	<p>The standard cell potential for a reaction with equilibrium constant $K_{\text{eq}} = 1$ is,</p> <p>A1 0.0 V – (Correct Alternative)</p> <p>:</p> <p>A2 0.1 V</p> <p>:</p> <p>A3 1.0 V</p> <p>:</p> <p>A4 10 Vs</p> <p>:</p>	1. 0	0.2 5
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Objective Question

39	39	<p>The limiting molar conductivities of KF, KCH_3CO_2 and $\text{Mg}(\text{CH}_3\text{CO}_2)_2$ are $13 \text{ S m}^2 \text{ mol}^{-1}$, $11 \text{ mS m}^2 \text{ mol}^{-1}$, and $18 \text{ mS m}^2 \text{ mol}^{-1}$, respectively (all at 25°C). The limiting molar conductivity of MgF_2 at this temperature is _____.</p> <p>A1 $11 \text{ mS m}^2 \text{ mol}^{-1}$</p> <p>:</p> <p>A2 $22 \text{ mS m}^2 \text{ mol}^{-1}$ – (Correct Alternative)</p> <p>:</p> <p>A3 $33 \text{ mS m}^2 \text{ mol}^{-1}$</p> <p>:</p> <p>A4 $44 \text{ mS m}^2 \text{ mol}^{-1}$</p> <p>:</p>	1. 0	0.2 5
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Objective Question

40	40	<p>For a particle in a cubic box, the degeneracy of the level that has an energy six times that of the lowest level is,</p> <p>A1 0 :</p> <p>A2 1 :</p> <p>A3 2 :</p> <p>A4 3 – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

41	41	<p>In a certain reaction its half-life doubles if the initial concentration double. The order of the reaction is,</p> <p>A1 0 – (Correct Alternative) :</p> <p>A2 1 :</p> <p>A3 2 :</p> <p>A4 3 :</p>	1. 0	0.2 5
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Objective Question

42	42	<p>Which of the following operators is NOT a linear operator?</p> <p>A1 Square root – (Correct Alternative) :</p> <p>A2 Square :</p> <p>A3 Differentiation :</p> <p>A4 Integration</p>	1. 0	0.2 5
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Objective Question

43	43	<p>The correct form of the equation that gives 'permitted vibrational energy levels' of an harmonic oscillator is, (Given: k_f = force constant, μ = reduced mass, ν = vibrational quantum number)</p> <p>A1 $\therefore E = \left(\nu + \frac{1}{2}\right) \frac{h}{2\pi} \left(\frac{k_f}{\mu}\right)^{1/2}$ – (Correct Alternative)</p> <p>A2 $\therefore E = \left(\nu + \frac{1}{2}\right) \frac{h}{2\pi} \left(\frac{k_f}{\mu}\right)^2$</p> <p>A3 $\therefore E = \left(\nu + \frac{1}{2}\right) k_f x^{1/2}$</p> <p>A4 $\therefore E = \left(\nu + \frac{1}{2}\right) k_f x^2$</p>	1. 0	0.2 5
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Objective Question

44	44	<p>From the PT diagram shown below, at -70°C temperature and 1 atm pressure, CO_2 exists as</p>	1. 0	0.2 5
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		<p>A1 Solid :</p> <p>A2 liquid :</p> <p>A3 vapour – (Correct Alternative) :</p> <p>A4 mixture of solid and vapour :</p>		
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Objective Question

45	45	<p>Predict the colour of cadmium sulfide (CdS) semiconductor quantum dots having a band gap energy of 2.6 eV.</p> <p>A1 Yellow-orange – (Correct Alternative) :</p> <p>A2 Blue :</p> <p>A3 Red :</p> <p>A4 Black :</p>	1. 0	0.2 5
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Objective Question

46	46	<p>Effectiveness factor of a catalyst is a measure of</p> <p>A1 internal diffusional resistance – (Correct Alternative) :</p> <p>A2 external diffusional resistance :</p> <p>A3 surface diffusional resistance :</p> <p>A4 none :</p>	1. 0	0.2 5
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Objective Question

47	47	<p>Fin efficiency is a. the ratio of actual heat transfer rate to that with a fin at</p> <p>A1 : constant temperature equal to the surface temperature</p> <p>A2 the ratio of actual heat transfer rate to that with a fin at an average : temperature</p> <p>A3 the ratio of actual heat transfer rate to that with a fin at a : constant temperature equal to the base temperature – (Correct Alternative)</p> <p>A4 : none of the above</p>	1. 0	0.2 5
Objective Question				
48	48	<p>No slip condition is valid</p> <p>A1 : always</p> <p>A2 : sometimes</p> <p>A3 : never</p> <p>A4 in most cases – (Correct Alternative)</p>	1. 0	0.2 5
Objective Question				
49	49	<p>Darcy's law states that fluid flux is</p> <p>A1 : proportional to viscosity</p> <p>A2 inversely proportional to viscosity – (Correct Alternative)</p> <p>A3 : inversely proportional to pressure drop</p> <p>A4 none of the above</p>	1. 0	0.2 5

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Objective Question				
50	50	Hagen-Poiseuille's equation applies to A1 : non-Newtonian and incompressible fluid A2 : non-Newtonian and compressible fluid A3 : Newtonian and compressible fluid A4 : Newtonian and incompressible fluid – (Correct Alternative)	1. 0	0.2 5
Objective Question				
51	51	Dimensionless number governing natural convection is A1 : Reynolds number A2 : Schmidt number A3 : Grashof number – (Correct Alternative) A4 : none of the above.	1. 0	0.2 5
Objective Question				
52	52	In oil reservoirs, Capillary number for oil flow through pores is of the order of A1 : 1 A2 : 10^6 A3 0.1	1. 0	0.2 5

		: A4 : 10^{-6} – (Correct Alternative)		
Objective Question				
53	53	Surface pressure of a contaminated liquid is A1 : greater than surface tension of pure liquid A2 : same as surface tension of pure liquid A3 : less than surface tension of pure liquid – (Correct Alternative) A4 : none of the above	1. 0	0.2 5
Objective Question				
54	54	Ring method of measuring surface tension considers A1 : the outer perimeter of the ring A2 : the inner perimeter of the ring A3 : both inner and outer perimeters of the ring – (Correct Alternative) A4 : none of the above	1. 0	0.2 5
Objective Question				
55	55	Drop weight method of measuring surface tension should mean A1 : weighing the drops formed very slowly – (Correct Alternative) A2 : weighing the drops formed very fast	1. 0	0.2 5

		A3 weighing the drops formed fast : A4 none of the above :		
Objective Question				
56	56	Maximum contact angle of any liquid on any solid A1 90 degrees : A2 120degrees : A3 160 degress : A4 180 degress – (Correct Alternative) :	1. 0	0.2 5
Objective Question				
57	57	1 Joule is A1 0.239 cal – (Correct Alternative) : A2 4.184 cal : A3 1055 : A4 none of the above :	1. 0	0.2 5
Objective Question				
58	58	1 Horse power is A1 546 watt : A2 746 watt – (Correct Alternative)	1. 0	0.2 5

		<p>:</p> <p>A3 446 watt</p> <p>:</p> <p>A4 none of the above</p> <p>:</p>		
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Objective Question

59	59	<p>1 Faraday unit is</p> <p>A1 the same as Faraday constant</p> <p>:</p> <p>A2 the electric charge per mole of electrons</p> <p>:</p> <p>A3 96485 C – (Correct Alternative)</p> <p>:</p> <p>A4 none of the above</p> <p>:</p>	1. 0	0.2 5
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Objective Question

60	60	<p>Thermodynamic probability is</p> <p>A1 the number of different ways in which a system in a given state can be realized – (Correct Alternative)</p> <p>:</p> <p>A2 the number of different states of a system at given T and P</p> <p>:</p> <p>A3 the number of different states of a system at given T and V</p> <p>:</p> <p>A4 the number of different states of a system at given T, P, and V</p> <p>:</p>	1. 0	0.2 5
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Objective Question

61	61	<p>FERA stands for</p> <p>A1 Foreign Exchange Regulation Act – (Correct Alternative)</p> <p>:</p>	1. 0	0.2 5
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		A2 Foreign Exchange Restrictions Act : A3 Foreign Exchange Reserves Act : A4 None of these :		
Objective Question				
62	62	Which is India's highest civilian honour? A1 Ashoka Chakra : A2 Padma Bhushan : A3 Padma Sri : A4 One of the above – (Correct Alternative) :	1. 0	0.2 5
Objective Question				
63	63	The ozone layer is part of the A1 Troposphere : A2 Stratosphere – (Correct Alternative) : A3 Ionosphere : A4 Mesosphere :	1. 0	0.2 5
Objective Question				
64	64	What is the currency of Indonesia? A1 Rupiah – (Correct Alternative)	1. 0	0.2 5

		<p>:</p> <p>A2 Dinar</p> <p>:</p> <p>A3 Riyal</p> <p>:</p> <p>A4 Rangit</p> <p>:</p>		
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Objective Question

65	65	<p>Israel's Rafale Defence Systems Ltd has formed a joint venture with _____ to produce anti-tank guided missiles for the Indian armed forces</p> <p>A1 Goa Shipyard</p> <p>:</p> <p>A2 Hindustan Aeronautics Limited</p> <p>:</p> <p>A3 Kalyani Group – (Correct Alternative)</p> <p>:</p> <p>A4 None of the above</p> <p>:</p>	1.0	0.25
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Objective Question

66	66	<p>Method used for separation of water and alcohol is:</p> <p>A1 Evaporation</p> <p>:</p> <p>A2 Filtration</p> <p>:</p> <p>A3 Distillation – (Correct Alternative)</p> <p>:</p> <p>A4 Decantation</p> <p>:</p>	1.0	0.25
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Objective Question

67	67	<p>The estimation of the age of the earth is done by:</p> <p>A1 Uranium dating – (Correct Alternative)</p> <p>A2 Carbon dating</p> <p>A3 Atomic clock</p> <p>A4 Bio clock</p>	1. 0	0.2 5
Objective Question				
68	68	<p>Which gas is used to disinfect the drinking water?</p> <p>A1 Hydrogen</p> <p>A2 Chlorine – (Correct Alternative)</p> <p>A3 Fluorine</p> <p>A4 Oxygen</p>	1. 0	0.2 5
Objective Question				
69	69	<p>The ‘Concept of Inertia’ was developed by:</p> <p>A1 Galileo – (Correct Alternative)</p> <p>A2 Newton</p> <p>A3 Einstein</p> <p>A4 Archimedes</p>	1. 0	0.2 5

Objective Question				
70	70	<p>Maximum portion of the moon visible from the earth's surface is:</p> <p>A1 : 50%</p> <p>A2 59% – (Correct Alternative) :</p> <p>A3 : 41%</p> <p>A4 : 47%</p>	1. 0	0.2 5
Objective Question				
71	71	<p>To deprive someone of voting rights is</p> <p>A1 : Disfranchise</p> <p>A2 Disenfranchise – (Correct Alternative) :</p> <p>A3 : Unfranchise</p> <p>A4 : franchise</p>	1. 0	0.2 5
Objective Question				
72	72	<p>Where you are today, _____ What counts is where you are going.</p> <p>A1 : Do not count</p> <p>A2 Doesn't count – (Correct Alternative) :</p> <p>A3 : Not count</p> <p>A4 Isn't count</p>	1. 0	0.2 5

		:		
Objective Question				
73	73	<p>The Prime Minister wants to call an all-party meeting to break the stalemate _____ this issue and _____ a consensus.</p> <p>A1 : on, win</p> <p>A2 : at, develop</p> <p>A3 : of, capture</p> <p>A4 : on, reach – (Correct Alternative)</p>	1. 0	0.2 5
Objective Question				
74	74	<p>It was a great _____ to _____ the high-level meeting between America and India.</p> <p>A1 : favour, part</p> <p>A2 : time, participate</p> <p>A3 : honour, witness – (Correct Alternative)</p> <p>A4 : period, watch</p>	1. 0	0.2 5
Objective Question				
75	75	<p>Internet has _____ revolutionised the world of _____ and knowledge.</p> <p>A1 : become, media</p> <p>A2 : really, college</p>	1. 0	0.2 5

		A3 : probably, application A4 : indeed, information – (Correct Alternative)		
Objective Question				
76	76	The antonym of Discrepancy A1 : inconsistency A2 : consistency – (Correct Alternative) A3 : inappropriate A4 : variance	1. 0	0.2 5
Objective Question				
77	77	The antonym of Dismal is A1 : remarkable – (Correct Alternative) A2 : trivial A3 : reserved A4 : puzzled	1. 0	0.2 5
Objective Question				
78	78	They finally saw _____ on the business deal. A1 : face to face A2 : eye to eye – (Correct Alternative)	1. 0	0.2 5

		<p>:</p> <p>A3 eye and eye :</p> <p>A4 hand on hand :</p>		
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Objective Question

79	79	<p>By working part-time and looking after her kids two days a week she managed to _____</p> <p>A1 get the pie :</p> <p>A2 take the pie :</p> <p>A3 have the cake and eat it too :</p> <p>A4 get the best of both worlds – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

80	80	<p>Tick the word closest in meaning to the word in italics- a <i>baffling</i> problem:</p> <p>A1 difficult :</p> <p>A2 simple :</p> <p>A3 puzzling – (Correct Alternative) :</p> <p>A4 long :</p>	1. 0	0.2 5
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Objective Question

81	81	<p>Which of the below pair has the same relationship for Revolution: Change?</p>	1. 0	0.2 5
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		A1 Disease : Medicine : A2 Treaty : Peace – (Correct Alternative) : A3 Food : Energy : A4 Famous : Notorious :		
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Objective Question

82	82	If in a certain language MYSTIFY is coded as NZTUJGZ, how is NEMISES coded in that code? A1 MDLHRDR : A2 OFNJTFT – (Correct Alternative) : A3 ODNHTDR : A4 PGOKUGU :	1. 0	0.2 5
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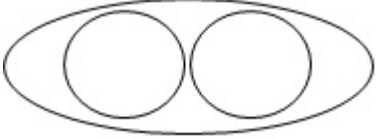
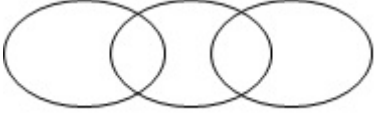
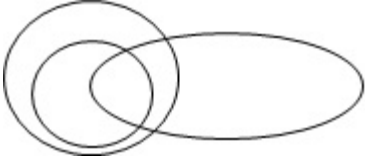
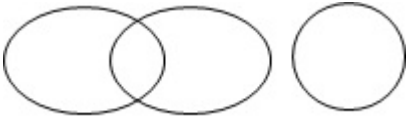
Objective Question

83	83	If Chi Kai Shi means Earth is round; Chu Chin Chi means Banana is sweet; Kulshak Kai means Balls are round, then which letter code stands for Earth? A1 Chi : A2 Shi – (Correct Alternative) : A3 Kai : A4 Chu :	1. 0	0.2 5
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Objective Question				
84	84	<p>A+B means A is the son of B; A–B means A is the wife of B; AXB means A is the brother of B; A/B means A is the mother of B; and A=B means A is the sister of B? What does P+R–Q mean?</p> <p>A1 : Q is the father of P – (Correct Alternative)</p> <p>A2 : Q is the son of P</p> <p>A3 : Q is the uncle of P</p> <p>A4 : Q is the brother of P</p>	1. 0	0.2 5
Objective Question				
85	85	<p>Six persons A, B, C, D, E and F are sitting in two rows, three in each. E is not at the end of any row. D is the second to the left of F. C, the neighbor of E, is sitting diagonally opposite to D. B is the neighbor of F. Which of the following are sitting diagonally opposite to each other?</p> <p>A1 : F and C</p> <p>A2 : D and A</p> <p>A3 : A and C</p> <p>A4 : A and F – (Correct Alternative)</p>	1. 0	0.2 5
Objective Question				
86	86	<p>Abhinav walked 2 km west of his house and then turned south covering 4 km. Finally, he moved 3 km towards east and then again 1 km west. How far is he from his initial position?</p> <p>A1 : 2 km</p>	1. 0	0.2 5

		<p>A2 4 km – (Correct Alternative)</p> <p>:</p> <p>A3 9 km</p> <p>:</p> <p>A4 10 km</p> <p>:</p>		
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Objective Question

87	87	<p>Which of the following diagrams correctly represents elephants, wolves, and animals?</p> <p>A1</p> <p>:</p>  <p>– (Correct Alternative)</p> <p>A2</p> <p>:</p>  <p>A3</p> <p>:</p>  <p>A4</p> <p>:</p> 	1. 0	0.2 5
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Objective Question

88	88	<p>If by arranging the letters of the word NABMODINT, the name of a game is formed, what are the first and last letter of the word so formed.</p> <p>A1 B, T</p> <p>:</p> <p>A2 M, T</p> <p>:</p> <p>A3 B, N – (Correct Alternative)</p> <p>:</p>	1. 0	0.2 5
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		A4 : M, N		
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Objective Question

89	89	<p>If + means /, - means x, / means +, and x means -, then $36 \times 12 + 4/6 + 2 - 3 =$ _____.</p> <p>A1 : 2</p> <p>A2 : 18</p> <p>A3 : 42 – (Correct Alternative)</p> <p>A4 : 12</p>	1. 0	0.2 5
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Objective Question

90	90	<p>Considering α means greater than, if $3A \alpha B$ and $3B \alpha 2C$, then</p> <p>A1 : $2A \alpha C$</p> <p>A2 : $4A \alpha B$</p> <p>A3 : $4A \alpha C$ – (Correct Alternative)</p> <p>A4 : $2A \alpha B$</p>	1. 0	0.2 5
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Objective Question

91	91	<p>Choose the group of letters which is different from others in the group of BCD, KMN, QRS, GHI, and WXY</p> <p>A1 : KMN – (Correct Alternative)</p> <p>A2 : GHI</p>	1. 0	0.2 5
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		<p>A3 WXY :</p> <p>A4 BCD :</p>		
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Objective Question

92	92	<p>The unit's digit in the product $(3127)^{173}$ is _____.</p> <p>A1 1 :</p> <p>A2 3 :</p> <p>A3 7 – (Correct Alternative) :</p> <p>A4 9 :</p>	1. 0	0.2 5
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Objective Question

93	93	<p>5b2 is a three-digit number with b as a missing digit. If the number is divisible by 6, the missing digit is _____.</p> <p>A1 2 – (Correct Alternative) :</p> <p>A2 3 :</p> <p>A3 6 :</p> <p>A4 7 :</p>	1. 0	0.2 5
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Objective Question

94	94	<p>How many of the following numbers are divisible by 132? 264, 396, 462, 792, 968, 2178, 5184, 6336</p> <p>A1 4 – (Correct Alternative) :</p>	1. 0	0.2 5
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		A2 5 : A3 6 : A4 7 :		
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Objective Question

95	95	<p>The sum of three consecutive odd numbers is always divisible by_____.</p> <p>I. 2 II. 3 III. 5 IV. 6</p> A1 Only I : A2 Only II – (Correct Alternative) : A3 Only I and II : A4 Only II and IV :	1. 0	0.2 5
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Objective Question

96	96	<p>The least number which must be subtracted from 6709 to make it exactly divisible by 9 is_____.</p> A1 2 : A2 3 : A3 4 – (Correct Alternative) : A4 5 :	1. 0	0.2 5
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Objective Question

97	97	<p>When a number is divided by 31, the remainder is 29. When the same number is divided by 16, what will be the remainder?</p> <p>A1 11 :</p> <p>A2 13 :</p> <p>A3 15 :</p> <p>A4 Data inadequate – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

98	98	<p>The average of first 10 even numbers is _____.</p> <p>A1 18 :</p> <p>A2 22 :</p> <p>A3 9 :</p> <p>A4 11 – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

99	99	<p>A man can row his boat with the stream at 6 km/h and against the stream in 4 km/h. The man's rate is _____ km/h</p> <p>A1 1 – (Correct Alternative) :</p> <p>A2 5 :</p> <p>A3 8 :</p> <p>A4 3</p>	1. 0	0.2 5
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Objective Question				
100	100	<p>If Rs.7500 are borrowed at Compound Interest at the rate of 4% per annum, then after 2 years the amount to be paid is _____.</p> <p>A1 8112 – (Correct Alternative)</p> <p>A2 8100</p> <p>A3 7900</p> <p>A4 8000</p>	1. 0	0.2 5
Objective Question				
101	101	<p>If the cost of M meters of wire is R rupees, then what would be the cost of N meters of same wire at the same rate?</p> <p>A1 (R/M).N – (Correct Alternative)</p> <p>A2 (R/MN)</p> <p>A3 (M/N).R</p> <p>A4 (RM/N)</p>	1. 0	0.2 5
Objective Question				
102	102	<p>A seller gives a discount of 4% on a product with MRP marked INR 1500. He earned a profit of 20% over its cost price in this transaction. Cost price of the product is</p> <p>A1 1200 – (Correct Alternative)</p> <p>A2 1500</p>	1. 0	0.2 5

		: A3 1600 : A4 1000 :		
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Objective Question

103	103	<p>If the sides of a rectangle are increased by 30%, what will be the percentage increase in the area of the rectangle?</p> <p>A1 44% :</p> <p>A2 40% :</p> <p>A3 64% :</p> <p>A4 69% – (Correct Alternative) :</p>	1. 0	0.2 5
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Objective Question

104	104	<p>If $A + B = 99$, and B is half of A, then the value of A and B is?</p> <p>A1 33, 66 :</p> <p>A2 66, 33 – (Correct Alternative) :</p> <p>A3 77, 22 :</p> <p>A4 22, 77 :</p>	1. 0	0.2 5
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Objective Question

105	105	<p>What will be the unit's digit in $(564)^{202} + (564)^{203}$</p> <p>A1 4</p>	1. 0	0.2 5
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		<p>:</p> <p>A2 6</p> <p>:</p> <p>A3 0 – (Correct Alternative)</p> <p>:</p> <p>A4 2</p> <p>:</p>		
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Objective Question

106	106	<p>Three varieties of tea called A, B and C respectively are mixed in the ratio of 2:1:3 to yield a mixture worth Rs 155 per kg. If the price of A is 120 per kg, and that of B is 150 per kg; what is the price of 2 kgs of C?</p> <p>A1 450</p> <p>:</p> <p>A2 360 – (Correct Alternative)</p> <p>:</p> <p>A3 300</p> <p>:</p> <p>A4 270</p> <p>:</p>	1.0	0.25
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Objective Question

107	107	<p>A sum of money grows to Rs 325 when it is invested at 5% per annum simple interest. If same amount of money is invested for 4% it grows to Rs 312. How long was the money invested for?</p> <p>A1 4 Years</p> <p>:</p> <p>A2 7 Years</p> <p>:</p> <p>A3 5 Years – (Correct Alternative)</p> <p>:</p> <p>A4 10 Years</p> <p>:</p>	1.0	0.25
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Objective Question				
108	108	<p>A shopkeeper provides successive discounts of 20% and 10% on an article, yet he manages to earn a profit of 8%. The selling price of the article is Rs 1296. The difference between the cost price and marked price is</p> <p>A1 400 :</p> <p>A2 500 :</p> <p>A3 600 – (Correct Alternative) :</p> <p>A4 800 :</p>	1. 0	0.2 5
Objective Question				
109	109	<p>Tap A can fill a tank in 9 hours and tap B can fill in 6 hours. Tap A is opened at 8:00 AM and tap B is opened at 11:00 AM. Time at which the tank would be filled is</p> <p>A1 1:00 PM :</p> <p>A2 1:24 PM – (Correct Alternative) :</p> <p>A3 1:20 PM :</p> <p>A4 1:30 PM :</p>	1. 0	0.2 5
Objective Question				
110	110	<p>The average score of section A, B and C of a class is 75, 76 and 80 respectively. The numbers of students in three sections are in ratio 1:2:3. Average scores of all the sections combined is?</p> <p>A1 77.57 :</p>	1. 0	0.2 5

		A2 78.59 : A3 76.93 : A4 77.83 – (Correct Alternative) :		
Objective Question				
111	111	A doctor invents a kit to diagnose blood sugar levels. Such a kit is : A1 Patentable – (Correct Alternative) : A2 Copyrightable : A3 Non patentable : A4 Trade mark related :	1. 0	0.2 5
Objective Question				
112	112	Cinematographic films and sound recordings can be protected under: A1 Design : A2 Trade Dress : A3 Copyright – (Correct Alternative) : A4 Patent :	1. 0	0.2 5
Objective Question				
113	113	_____ is a registered geographical indication in India:	1. 0	0.2 5

		A1 : Samosa A2 : Burfi A3 : Tirupatiladdu – (Correct Alternative) A4 : GulabJamun		
Objective Question				
114	114	In India, how long does copyright last for literary works? A1 : 10 years after the creation of the work A2 : 50 years after the creation of the work A3 : 10 years after the death of the person who created that work A4 60 years after the death of the person who created that work – : (Correct Alternative)	1. 0	0.2 5
Objective Question				
115	115	A group of researchers have developed a new technology which is which is an improvement over the technology used in existing mobile phones available in the market. What type of intellectual property can they use to stop others from copying their invention? A1 : Copyright A2 : Geographical indications A3 : Patents – (Correct Alternative) A4 : Trademarks	1. 0	0.2 5

Objective Question				
116	116	<p>WIPO stands for :</p> <p>A1 : World International Protection Office</p> <p>A2 : World Indian Protection Office</p> <p>A3 : World Intellectual Protection Office</p> <p>A4 World Intellectual Property Organisation – (Correct Alternative)</p>	1. 0	0.2 5
Objective Question				
117	117	<p>A patent gives the owner the right to:</p> <p>A1 : Collect a monetary award from the government</p> <p>A2 Prevent others from making, using or selling their invention – (Correct Alternative)</p> <p>A3 : Make the invention</p> <p>A4 : Market the product free of cost</p>	1. 0	0.2 5
Objective Question				
118	118	<p>Which of the following will violate the IP rights of Late ShriAtalBihari Vajpayee, a former Prime Minister.</p> <p>A1 Republishing a picture of him while reciting a poetry during : kaviSamelan</p> <p>A2 : Rebroadcasting the speech he gave from Red Fort in 2000.</p> <p>A3 Reprinting of his autobiography published by him in 2002. – (Correct Alternative)</p>	1. 0	0.2 5

		A4 : None of the above as he has passed away.		
Objective Question				
119	119	<p>What is the duration of copyright protection of a novel?</p> <p>A1 : A novel will not gain copyright protection</p> <p>A2 : The day the author dies</p> <p>A3 : The end of the calender year in which the author died</p> <p>A4 60 years from the end of the calender year in which the author died – (Correct Alternative)</p>	1. 0	0.2 5
Objective Question				
120	120	<p>A provisional patent was applied for on 1 Jan 1999. The application was converted into final specification and filed on 1 July 1999. It was published 18 months later on Jan1, 2001 and granted on May 30, 2003. The patent is valid until what date?</p> <p>A1 : May 29,2023</p> <p>A2 : Dec. 31, 2019</p> <p>A3 : June 30,2019</p> <p>A4 Dec. 31,2018 – (Correct Alternative)</p>		