

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	1	<p>The approximate number of nucleotides in a microRNA is:</p> <p>A1 : 12</p> <p>A2 : 22</p> <p>A3 : 32</p> <p>A4 : 42</p>	4.0	1.00
Objective Question				
2	2	<p>Sertoli cells are present in:</p> <p>A1 : ovarian stroma</p> <p>A2 : prostate glands</p> <p>A3 : germinal epithelium</p> <p>A4 : seminiferous tubules</p>	4.0	1.00
Objective Question				
3	3	<p>DNA replication and synthesis of histone proteins occur in:</p> <p>A1 : G1 phase</p> <p>A2 : G2 phase</p> <p>A3 : S phase</p> <p>A4 : M phase</p>	4.0	1.00
Objective Question				
4	4	<p>The rate of synonymous nucleotide substitution is high at:</p> <p>A1 : First codon position</p>	4.0	1.00

		<p>A2 : Second codon position</p> <p>A3 : Third codon position</p> <p>A4 : Fourth codon position</p>		
Objective Question				
5	5	<p>The phylogenetic method may generate multiple trees:</p> <p>A1 : Neighbour joining</p> <p>A2 : Maximum parsimony</p> <p>A3 : Maximum likelihood</p> <p>A4 : UPGMA</p>	4.0	1.00
Objective Question				
6	6	<p>Paralogous genes have:</p> <p>A1 : Same function in different organisms.</p> <p>A2 : Same function in one organism.</p> <p>A3 : Different functions in different organisms.</p> <p>A4 : Different functions in one organism.</p>	4.0	1.00
Objective Question				
7	7	<p>During eukaryotic DNA replication, lagging strand is formed by</p> <p>A1 : DNA fragments</p> <p>A2 : Okazaki fragments</p> <p>A3 : RNA fragments</p> <p>A4 : Nucleotide fragments</p>	4.0	1.00
Objective Question				
8	8	<p>NOR (Nucleolus organizing regions) occurs in the region of</p> <p>A1 : Secondary constriction</p>	4.0	1.00

		<p>:</p> <p>A2 primary constriction :</p> <p>A3 telomer :</p> <p>A4 centromere :</p>		
Objective Question				
9	9	<p>The main control point in glycolysis is:</p> <p>A1 Phosphofructokinase :</p> <p>A2 Hexokinase :</p> <p>A3 Phosphoglucoisomerase :</p> <p>A4 Enolase :</p>	4.0	1.00
Objective Question				
10	10	<p>The main control point in citric acid cycle (Krebs cycle) is:</p> <p>A1 Isocitrate dehydrogenase :</p> <p>A2 Malate dehydrogenase :</p> <p>A3 Succinic dehydrogenase :</p> <p>A4 Aconitase :</p>	4.0	1.00
Objective Question				
11	11	<p>If a nucleotide sequence encoding a protein is known and a homologous protein to be identified, which of the following will be the best analysis tool</p> <p>A1 BLASTp :</p> <p>A2 BLASTn :</p> <p>A3 BLASTx :</p> <p>A4 tBLASTn :</p>	4.0	1.00
Objective Question				

12	12	<p>Which is the best annotated database?</p> <p>A1 : Genbank</p> <p>A2 : PDB</p> <p>A3 : Prodom</p> <p>A4 : Swissprot</p>	4.0	1.00
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Objective Question

13	13	<p>Which is the default scoring matrix used in BLAST?</p> <p>A1 : PAM62</p> <p>A2 : BLOSUM 62</p> <p>A3 : BLOSUM 60</p> <p>A4 : BLOSUM 80</p>	4.0	1.00
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Objective Question

14	14	<p>PAM matrices are derived by noting evolutionary changes in protein sequences that are more than:</p> <p>A1 : 80% similar</p> <p>A2 : 60% similar</p> <p>A3 : 40% similar</p> <p>A4 : 25% similar</p>	4.0	1.00
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Objective Question

15	15	<p>In Molecular Dynamics simulation, the dependence is on:</p> <p>A1 : only position</p> <p>A2 : only momentum</p> <p>A3 : both position and momentum</p> <p>A4 : either position or momentum</p>	4.0	1.00
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Objective Question				
16	16	<p>In Needleman Wunsch algorithm of pairwise alignment of sequences with lengths n and m, the computational time is proportional to:</p> <p>A1 : n x m</p> <p>A2 : (n+1) x (m+1)</p> <p>A3 : n + m</p> <p>A4 : n x (m+1)</p>	4.0	1.00
Objective Question				
17	17	<p>In a PHYLIP output, the first line is two numbers, what do they indicate?</p> <p>A1 : Number of sequences, length of alignment</p> <p>A2 : Length of alignment, number of sequences</p> <p>A3 : Number of gaps, number of sequences</p> <p>A4 : Number of sequences, number of gaps</p>	4.0	1.00
Objective Question				
18	18	<p>BLAT is used to find:</p> <p>A1 : regions of higher identity within genomic assemblies</p> <p>A2 : regions of higher differences within genomic assemblies</p> <p>A3 : folds in a RNA sequence</p> <p>A4 : secondary structures in a given protein</p>	4.0	1.00
Objective Question				
19	19	<p>Homology modeling may be distinguished from ab initio prediction because:</p> <p>A1 : Homology modeling requires a model to be built</p> <p>A2 : Homology modeling requires alignment of a target to a template</p> <p>A3 : Homology modeling is usefully applied to any protein sequence</p>	4.0	1.00

		A4 : The accuracy of homology modeling is independent of the percent identity between the target and the template		
Objective Question				
20	20	<p>A left handed alpha helix falls in the Ramachandran plot under:</p> <p>A1 : allowed region</p> <p>A2 : partially allowed region</p> <p>A3 : disallowed region</p> <p>A4 : line joining allowed and partially allowed region</p>	4.0	1.00
Objective Question				
21	21	<p>Enantiomers are:</p> <p>A1 : stereoisomers</p> <p>A2 : distinguished by plane polarized light</p> <p>A3 : are not superimposable on their mirror images</p> <p>A4 : Are superimposable on their mirror images</p>	4.0	1.00
Objective Question				
22	22	<p>The following structure is the amino acid:</p> $  \begin{array}{c}  \text{COOH} \quad \quad \text{O} \\    \quad \quad    \\  \text{C} - \text{CH}_2 - \text{C} - \text{NH}_2 \\    \\  \text{NH}_3^+  \end{array}  $ <p>A1 : asparagine</p> <p>A2 : leucine</p> <p>A3 : lysine</p> <p>A4 : Glutamate</p>	4.0	1.00
Objective Question				
23	23	The term "SALTING IN" refers to?	4.0	1.00

		<p>A1 : Changes in an amino acid's isoelectric point.</p> <p>A2 : Increasing the solubility of a protein in solution by adding ions.</p> <p>A3 : The use of a liquid bridge in an electrochemical cell.</p> <p>A4 : The ionization of a strong acid.</p>		
Objective Question				
24	24	<p>The van der Waals radius is:</p> <p>A1 : The radius of gyration for a macromolecule.</p> <p>A2 : The distance separating the system and its surroundings.</p> <p>A3 : The distance over which a dipole moment is exhibited.</p> <p>A4 : the space filling dimension of an atom.</p>	4.0	1.00
Objective Question				
25	25	<p>The three “mechanisms” by which existing proteins can be changed over the <u>course of time</u> to produce new proteins:</p> <p>A1 : transcription, translation, transposition</p> <p>A2 : inversion, dispersion, concentration</p> <p>A3 : denaturation, renaturation, saltation</p> <p>A4 : gene duplication, mutation/evolution, protein modules</p>	4.0	1.00
Objective Question				
26	26	<p>A correct sequence(s) of the electro negativities of atoms from <u>greatest to least</u> is (are):</p> <p>A1 : O &gt; N &gt; C</p> <p>A2 : Na &gt; F &gt; Fe</p> <p>A3 : H &gt; C &gt; O</p> <p>A4 : C &gt; H &gt; O.</p>	4.0	1.00

Objective Question				
27	27	<p>The local spatial arrangement of a polypeptide's backbone atoms without regard to the conformation of its side chains can be called?</p> <p>A1 : Primary structure</p> <p>A2 : Secondary structure</p> <p>A3 : Tertiary structure</p> <p>A4 : Quaternary structure</p>	4.0	1.00
Objective Question				
28	28	<p>The ionic strength of a 0.015 M solution of CaCl<sub>2</sub> is:</p> <p>A1 : 0.037</p> <p>A2 : 0.090</p> <p>A3 : 0.045</p> <p>A4 : 0.030</p>	4.0	1.00
Objective Question				
29	29	<p>What is the correct name for this biochemical functional group?</p> $\begin{array}{c}   \\ -C=NH \end{array}$ <p>A1 : amino</p> <p>A2 : imidazole</p> <p>A3 : amido</p> <p>A4 : imino</p>	4.0	1.00
Objective Question				
30	30	<p>Clathrate is the name given to:</p> <p>A1 : An ionized amino acid side chain</p> <p>A2 : the secondary structure of a membrane-bound protein</p>	4.0	1.00



		<p>A3 the physical structure of water molecules around a nonpolar molecule. :</p> <p>A4 a plasma membrane structure. :</p>		
Objective Question				
31	31	<p>A stone of mass 500 gram, attached to the end of a string of length 1 m is whirled in a horizontal circle at a speed of 10 m/s. What is the tension in the string?</p> <p>A1 25 N :</p> <p>A2 50 N :</p> <p>A3 25,000 N :</p> <p>A4 50,000 N :</p>	4.0	1.00
Objective Question				
32	32	<p>In the case of uniform circular motion, the physical quantity that does not remains constant is</p> <p>A1 mass :</p> <p>A2 speed :</p> <p>A3 linear momentum :</p> <p>A4 kinetic energy :</p>	4.0	1.00
Objective Question				
33	33	<p>If <math>\Phi = x^2 - xyz</math>, then <math>\nabla\Phi</math> at (4, 3, 2) is</p> <p>A1 <math>4\mathbf{i} - 3\mathbf{j} + 2\mathbf{k}</math> :</p> <p>A2 <math>16\mathbf{i} - 3\mathbf{j} + 2\mathbf{k}</math> :</p> <p>A3 <math>2\mathbf{i} - 8\mathbf{j} + 12\mathbf{k}</math> :</p> <p>A4 <math>2\mathbf{i} - 3\mathbf{j} + 2\mathbf{k}</math> :</p>	4.0	1.00
Objective Question				
34	34	<p>The emissive power of a perfect black body is</p> <p>A1 0 :</p>	4.0	1.00

		<p>A2 : 0.5</p> <p>A3 : 1</p> <p>A4 : 0.75</p>		
Objective Question				
35	35	<p>Two thermometers A and B exposed to sunlight. The value of A is painted black but that of B is not painted. The correct statement regarding this case is</p> <p>A1 : Temperature of B will rise faster and shows higher than temperature A</p> <p>A2 : Temperature of A will remain more than temperature B</p> <p>A3 : Both of A and B show equal rise from the beginning</p> <p>A4 : Temperature of A will rise faster than B but the final temperature will be same in both</p>	4.0	1.00
Objective Question				
36	36	<p>Speed of three molecules of a gas are <math>3 \text{ ms}^{-1}</math>, <math>4 \text{ ms}^{-1}</math> and <math>5 \text{ ms}^{-1}</math>. The r.m.s. speed of these molecule is,</p> <p>A1 : <math>4 \text{ ms}^{-1}</math></p> <p>A2 : <math>4.08 \text{ ms}^{-1}</math></p> <p>A3 : <math>7.1 \text{ ms}^{-1}</math></p> <p>A4 : <math>5 \text{ ms}^{-1}</math></p>	4.0	1.00
Objective Question				
37	37	<p>When a source is going away from a stationary observer, with a velocity equal to that of sound in air, then the frequency heard by the observer will be</p> <p>A1 : Same</p> <p>A2 : Half</p> <p>A3 : Double</p> <p>A4 : One third</p>	4.0	1.00
Objective Question				
38	38	Velocity of sound in air is	4.0	1.00

		<p>A1 300 m/s :</p> <p>A2 <math>3.8 \times 10^{10}</math> m/s :</p> <p>A3 <math>3 \times 10^8</math> m/s :</p> <p>A4 <math>9 \times 10^{19}</math> m/s :</p>		
Objective Question				
39	39	<p>If a capacitor of capacity C is charged with charge Q at a potential of V, then the potential energy stored in the capacitor is</p> <p>A1 <math>\frac{1}{2} QV</math> :</p> <p>A2 <math>\frac{1}{2} CV</math> :</p> <p>A3 <math>QV</math> :</p> <p>A4 <math>CV</math> :</p>	4.0	1.00
Objective Question				
40	40	<p>Which of the following phenomenon cannot take place with sound wave?</p> <p>A1 Reflection :</p> <p>A2 Interference :</p> <p>A3 Diffraction :</p> <p>A4 Polarization :</p>	4.0	1.00
Objective Question				
41	41	<p>Interactions which hold and stabilize sub units in quaternary structure of proteins are</p> <p>A1 Hydrophilic interactions :</p> <p>A2 Hydrophobic interactions :</p> <p>A3 Hydrogen bonding :</p> <p>A4 Ionic bonding :</p>	4.0	1.00

Objective Question				
42	42	<p>Process of folding depends upon the</p> <p>A1 : Solvent</p> <p>A2 : The concentration of salts</p> <p>A3 : pH</p> <p>A4 : All of these</p>	4.0	1.00

Objective Question				
43	43	<p>If entropy is increased than overall reaction is</p> <p>A1 : non spontaneous</p> <p>A2 : spontaneous</p> <p>A3 : no reaction</p> <p>A4 : displacement reaction</p>	4.0	1.00

Objective Question				
44	44	<p>Disulphide bonds are formed between</p> <p>A1 : cysteine residues that are close together</p> <p>A2 : glycine residues that are close together</p> <p>A3 : proline residues that are close together</p> <p>A4 : histidine residues that are close together</p>	4.0	1.00

Objective Question				
45	45	<p>Cleaving of peptide chain is done by</p> <p>A1 : Tyrosine</p> <p>A2 : Trypsin</p> <p>A3 : Tryptophan</p> <p>A4 Arginine</p>	4.0	1.00

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Objective Question				
46	46	<p>The molecular formula for deoxyribose sugar and ribose sugar respectively are</p> <p>A1 : C<sub>5</sub>H<sub>10</sub>O<sub>4</sub> and C<sub>5</sub>H<sub>10</sub>O<sub>6</sub></p> <p>A2 : C<sub>5</sub>H<sub>10</sub>O<sub>4</sub> and C<sub>5</sub>H<sub>10</sub>O<sub>5</sub></p> <p>A3 : C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> and C<sub>5</sub>H<sub>10</sub>O<sub>4</sub></p> <p>A4 : C<sub>5</sub>H<sub>10</sub>O<sub>5</sub> and C<sub>6</sub>H<sub>10</sub>O<sub>4</sub></p>	4.0	1.00
Objective Question				
47	47	<p>Predominant interactions between phospholipids that stabilize a biological membrane include</p> <p>A1 : Hydrogen bonds and covalent interactions.</p> <p>A2 : Van der Waal and ionic interactions.</p> <p>A3 : Hydrophobic interactions and hydrogen bonding.</p> <p>A4 : Covalent and hydrophobic interactions.</p>	4.0	1.00
Objective Question				
48	48	<p>The two amino acids having R groups with a negative net charge at pH 7.0 are</p> <p>A1 : Aspartate and glutamate</p> <p>A2 : Arginine and histidine</p> <p>A3 : Cysteine and methionine</p> <p>A4 : Proline and valine</p>	4.0	1.00
Objective Question				
49	49	<p>Two chains of amino acids in an insulin molecule are held together by</p> <p>A1 : Sulfide bridges</p> <p>A2 : Disulfide bridges</p> <p>A3 : Peptide bond</p>	4.0	1.00

		A4 Covalent linkage :		
Objective Question				
50	50	Which of the following is first determined as oligomer?  A1 Myoglobin :  A2 Collagen :  A3 Keratin :  A4 Hemoglobin :	4.0	1.00
Objective Question				
51	51	How many dechlorinated isomers would form in presence of light with $\text{CH}_3\text{CH}_2\text{CH}_2\text{CH}_3$ and $\text{Cl}_2$  A1 8 :  A2 6 :  A3 5 :  A4 2 :	4.0	1.00
Objective Question				
52	52	Halogenation of alkynes generally obey  A1 Chargoff's rule :  A2 Markonikov's rule :  A3 Anti-Markonikov's rule :  A4 Newman projection :	4.0	1.00
Objective Question				
53	53	Which of the following is a balanced equation  A1 $\text{CH}_3\text{OH} + \text{HCl} \rightarrow \text{CH}_3\text{Cl} + \text{H}_2\text{O}$ :  A2 $\text{Na}_2\text{CO}_3 + \text{HCl} \rightarrow 2\text{NaCl} + \text{CO}_2 + \text{H}_2\text{O}$ :	4.0	1.00

		<p>A3 <math>\text{C}_2\text{H}_6 + 3\text{O}_2 \rightarrow \text{CO}_2 + 3\text{H}_2\text{O}</math> :</p> <p>A4 <math>\text{C}_3\text{H}_8 + 4\text{O}_2 \rightarrow 4\text{H}_2\text{O} + 3\text{CO}_2</math> :</p>		
Objective Question				
54	54	<p>Natural amino acids found in following conformation</p> <p>A1 L and D :</p> <p>A2 D and R :</p> <p>A3 L :</p> <p>A4 D and S :</p>	4.0	1.00
Objective Question				
55	55	<p>Compounds without Chiral center is called</p> <p>A1 Enantiomer :</p> <p>A2 Diastereoisomer :</p> <p>A3 Mesomer :</p> <p>A4 Geometric Isomer :</p>	4.0	1.00
Objective Question				
56	56	<p>Which one of the following is NOT a keyword in C Language?</p> <p>A1 for :</p> <p>A2 case :</p> <p>A3 process :</p> <p>A4 break :</p>	4.0	1.00
Objective Question				
57	57	<p>The size of each atom is determined by</p> <p>A1 Valence shell :</p> <p>A2 Effective nuclear charge</p>	4.0	1.00

		<p>:</p> <p>A3 Lower atomic weight :</p> <p>A4 radiation :</p>		
Objective Question				
58	58	<p>Which of the following are iso electronic species</p> <p>A1 O<sup>2-</sup>, Na, Cl<sup>2-</sup> :</p> <p>A2 Li<sup>+</sup>, Be<sup>2+</sup>, B<sup>3+</sup> :</p> <p>A3 Mn<sup>2+</sup>, Na<sup>+</sup>, K<sup>2+</sup> :</p> <p>A4 Cl, Br, I :</p>	4.0	1.00
Objective Question				
59	59	<p>Oxygen radical can cause</p> <p>A1 Removal of toxins from our body :</p> <p>A2 Promote oxygen supply to blood cells :</p> <p>A3 Tissue damage :</p> <p>A4 Removal of kidney stone :</p>	4.0	1.00
Objective Question				
60	60	<p>The SQL command used to modify existing records of a table is</p> <p>A1 UPDATE :</p> <p>A2 SHOW :</p> <p>A3 CHANGE :</p> <p>A4 MODIFY :</p>	4.0	1.00
Objective Question				
61	61	<p>If <math>\alpha, \beta, \gamma</math> be the roots of the equation <math>x^3+px+q=0</math> then the value of <math>\sum \alpha^2 \beta</math> is</p> <p>A1 <math>3pq</math></p>	4.0	1.00



		<p>:</p> <p>A2 3p :</p> <p>A3 3q :</p> <p>A4 3 :</p>		
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Objective Question

62	62	<p>The straight lines <math>x+y=0</math>, <math>3x+y-4=0</math>, and <math>x+3y-4=0</math> form a triangle which is</p> <p>A1 equilateral :</p> <p>A2 isosceles :</p> <p>A3 right angled :</p> <p>A4 none of these :</p>	4.0	1.00
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Objective Question

63	63	<p>If the binomial expansion of <math>(a-b)^n</math>, <math>n \geq 5</math>, the sum of the 5th and 6th terms is zero, then the value of <math>\frac{a}{b}</math> is</p> <p>A1 <math>(n-5)/6</math> :</p> <p>A2 <math>5/(n-4)</math> :</p> <p>A3 <math>6/(n-5)</math> :</p> <p>A4 <math>(n-4)/5</math> :</p>	4.0	1.00
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Objective Question

64	64	<p>In how many different ways can the letters of the word 'MATHEMATICS' be arranged so that the vowels always come together?</p> <p>A1 10080 :</p> <p>A2 120960 :</p> <p>A3 120940 :</p> <p>A4 4989600 :</p>	4.0	1.00
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Objective Question				
65	65	<p>A number consists of 3 digits whose sum is 10. The middle digit is equal to the sum of the other two and the number will be increased by 99 if its digits are reversed. The number is</p> <p>A1 253 :</p> <p>A2 352 :</p> <p>A3 370 :</p> <p>A4 145 :</p>	4.0	1.00
Objective Question				
66	66	<p>If <math>A+B = 45^\circ</math> then <math>(1+\tan A)(1+\tan B)</math> equals</p> <p>A1 2 :</p> <p>A2 <math>\sqrt{3}</math> :</p> <p>A3 <math>\frac{2}{3}</math> :</p> <p>A4 -2 :</p>	4.0	1.00
Objective Question				
67	67	<p>The equation of the plane passing through the point (2,3,-1) and perpendicular to the vector (3,-4,7) is</p> <p>A1 <math>3x-4y+7z+13 = 0</math> :</p> <p>A2 <math>3x+4y+7z+13 = 0</math> :</p> <p>A3 <math>3x+4y-7z+13 = 0</math> :</p> <p>A4 <math>3x-4y+7z-13 = 0</math> :</p>	4.0	1.00
Objective Question				
68	68	<p>In what ratio must a grocer mix two varieties of pulses costing Rs. 15 and Rs. 20 per kg respectively so as to get a mixture worth Rs. 16.50 kg?</p> <p>A1 7:3 :</p> <p>A2 3:7 :</p> <p>A3 5:7</p>	4.0	1.00

		<p>:</p> <p>A4 7:5</p> <p>:</p>		
Objective Question				
69	69	<p>The coordinates of the points which divide the line segment joining the points (2,-4,3), (-4,5,6) in the ratio 2:1 is</p> <p>A1 2,2,5</p> <p>:</p> <p>A2 -2,2,5</p> <p>:</p> <p>A3 2,-2,-5</p> <p>:</p> <p>A4 -2,2,-5</p> <p>:</p>	4.0	1.00
Objective Question				
70	70	<p>If <math>\log a/(b-c) = \log b/(c-a) = \log c/(a-b)</math> then the value of abc is</p> <p>A1 -1</p> <p>:</p> <p>A2 1</p> <p>:</p> <p>A3 2</p> <p>:</p> <p>A4 -2</p> <p>:</p>	4.0	1.00
Objective Question				
71	71	<p>A glass rod rubbed with silk acquires a charge of <math>8 \times 10^{-12}\text{C}</math>. The number of electrons it has gained or lost</p> <p>A1 <math>5 \times 10^{-7}</math> (gained)</p> <p>:</p> <p>A2 <math>5 \times 10^7</math> (lost)</p> <p>:</p> <p>A3 <math>2 \times 10^{-8}</math> (lost)</p> <p>:</p> <p>A4 <math>-8 \times 10^{-12}</math> (lost)</p> <p>:</p>	4.0	1.00
Objective Question				
72	72	<p>The electrostatic force between two point charges kept at a distance d apart, in a medium <math>\epsilon_r = 6</math>, is 0.3 N. The force between them at the same separation in vacuum is</p> <p>A1 20 N</p> <p>:</p>	4.0	1.00

		<p>A2 0.5 N :</p> <p>A3 1.8 N :</p> <p>A4 2 N :</p>		
Objective Question				
73	73	<p>Electric field intensity is <math>400\text{Vm}^{-1}</math> at a distance of 2m from a point charge. It will be <math>100\text{Vm}^{-1}</math> at a distance?</p> <p>A1 50 cm :</p> <p>A2 4 cm :</p> <p>A3 4 m :</p> <p>A4 1.5 m :</p>	4.0	1.00
Objective Question				
74	74	<p>Two point charges +4q and +q are placed 30 cm apart. At what point on the line joining them the electric field is zero ?</p> <p>A1 15cm from the charge q :</p> <p>A2 7.5cm from the charge q :</p> <p>A3 20cm from the charge 4q :</p> <p>A4 5cm from the charge q :</p>	4.0	1.00
Objective Question				
75	75	<p>A dipole is placed in a uniform electric field with its axis parallel to the field. It experiences</p> <p>A1 only a net force :</p> <p>A2 only a torque :</p> <p>A3 both a net force and torque :</p> <p>A4 neither a net force nor a torque :</p>	4.0	1.00
Objective Question				
76	76	<p>If a point lies at a distance x from the midpoint of the dipole, the electric potential at this point is proportional to</p>	4.0	1.00

		A1 : $1/x^2$  A2 : $1/x^3$  A3 : $1/x^4$  A4 : $1/x^{3/2}$		
Objective Question				
77	77	<p>Four charges <math>+q</math>, <math>+q</math>, <math>-q</math> and <math>-q</math> respectively are placed at the corners A, B, C and D of a square of side <math>a</math>. The electric potential at the centre O of the square is</p> <p>A1 : <math>1/4\pi\epsilon_0(q/a)</math>   A2 : <math>1/4\pi\epsilon_0(2q/a)</math>   A3 : <math>1/4\pi\epsilon_0(4q/a)</math>   A4 : zero</p>	4.0	1.00
Objective Question				
78	78	<p>Electric potential energy (U) of two point charges is</p> <p>A1 : <math>q_1q_2/4\pi\epsilon_0r^2</math>   A2 : <math>q_1q_2/4\pi\epsilon_0r</math>   A3 : <math>pE\cos\theta</math>   A4 : <math>pE\sin\theta</math></p>	4.0	1.00
Objective Question				
79	79	<p>The work done in moving <math>500\mu\text{C}</math> charge between two points on equipotential surface is</p> <p>A1 : zero   A2 : finite positive   A3 : finite negative   A4 : infinite</p>	4.0	1.00

Objective Question				
80	80	<p>which of the following quantities is scalar?</p> <p>A1 : dipole moment</p> <p>A2 : finite positive</p> <p>A3 : electric field</p> <p>A4 : electric potential</p>	4.0	1.00
Objective Question				
81	81	<p>The difference between memory and storage is that the memory is _____ and storage is _____</p> <p>A1 : Permanent , Temporary</p> <p>A2 : Temporary, Permanent</p> <p>A3 : Slow, Fast</p> <p>A4 : Large, Less</p>	4.0	1.00
Objective Question				
82	82	<p>The background of any word document</p> <p>A1 : Is always white colour</p> <p>A2 : Is the colour you preset under the options menu</p> <p>A3 : Is always the same for the entire document</p> <p>A4 : Can have any colour you choose</p>	4.0	1.00
Objective Question				
83	83	<p>The PC (Personal Computer) and the Apple Macintosh are examples of two different</p> <p>A1 : Platforms</p> <p>A2 : Applications</p> <p>A3 : Programs</p> <p>A4 Techniques</p>	4.0	1.00

		:		
Objective Question				
84	84	<p>Terminal is a</p> <p>A1 : Device used to give supply to a computer</p> <p>A2 : Point at which data may leave or enter the computer</p> <p>A3 : Input/Output device</p> <p>A4 : Point where wires are interconnected</p>	4.0	1.00
Objective Question				
85	85	<p>Which one of the following programming construct divides the problem into sub problem?</p> <p>A1 : Iteration</p> <p>A2 : Selection</p> <p>A3 : Modularity</p> <p>A4 : Sequence</p>	4.0	1.00
Objective Question				
86	86	<p>Which one of the following is a commercial Anti-Virus software?</p> <p>A1 : AVAST! Home edition</p> <p>A2 : AVG Anti-Virus</p> <p>A3 : Kaspersky Anti-Virus</p> <p>A4 : Nortan Anti-Virus</p>	4.0	1.00
Objective Question				
87	87	<p>_____ to transmit information on the World Wide Web.</p> <p>A1 : TPPH</p> <p>A2 : HTTP</p> <p>A3 : HPTT</p>	4.0	1.00

		A4 : HTPT		
Objective Question				
88	88	Which is the slowest Internet connection service?  A1 : Cable modem  A2 : Land line  A3 : Dial up service  A4 : Digital subscriber line	4.0	1.00
Objective Question				
89	89	Junk E-mail is also called  A1 : Copple crumbs  A2 : Sniffer script  A3 : Spoof  A4 : Spam	4.0	1.00
Objective Question				
90	90	The concept of electronic cash is to execute payment by  A1 : Cheque  A2 : Debit card  A3 : Credit ard  A4 : ATM card	4.0	1.00
Objective Question				
91	91	The mass number of an atom is equal to  A1 : The number of protons  A2 : The number of protons and electrons	4.0	1.00



		<p>A3 The number of neutrons :</p> <p>A4 The number of nucleons :</p>		
Objective Question				
92	92	<p>The pH of a solution is determined by</p> <p>A1 concentration of salt :</p> <p>A2 relative concentration of acids and bases :</p> <p>A3 dielectric constant of the medium :</p> <p>A4 environmental effect :</p>	4.0	1.00
Objective Question				
93	93	<p>Among the following, the compound that contains ionic, covalent and coordinate linkage is</p> <p>A1 NaCl :</p> <p>A2 CaO :</p> <p>A3 NH<sub>3</sub> :</p> <p>A4 NH<sub>4</sub>Cl :</p>	4.0	1.00
Objective Question				
94	94	<p>Which compounds are isomers?</p> <p>A1 methanol and methanal :</p> <p>A2 n-propanol and iso-propanol :</p> <p>A3 ethane and ethanol :</p> <p>A4 ethanol and methanol :</p>	4.0	1.00
Objective Question				
95	95	<p>Which of the following amino acid contain an imidazolium moiety?</p> <p>A1 Alanine :</p> <p>A2 Valine</p>	4.0	1.00

		<p>:</p> <p>A3 Cysteine :</p> <p>A4 Histidine :</p>		
Objective Question				
96	96	<p>Chlorophyll is a naturally occurring chelate compound in which central metal is</p> <p>A1 copper :</p> <p>A2 magnesium :</p> <p>A3 iron :</p> <p>A4 calcium :</p>	4.0	1.00
Objective Question				
97	97	<p>Pubchem has information regarding</p> <p>A1 Chemical structure :</p> <p>A2 Bio-activity :</p> <p>A3 DNA :</p> <p>A4 Both Chemical structure and Bio-activity :</p>	4.0	1.00
Objective Question				
98	98	<p>Which pair of amino acids absorbs the most UV light at 280 nm?</p> <p>A1 Threonine &amp; Histidine :</p> <p>A2 Trp&amp; Tyrosine :</p> <p>A3 Cystein&amp; Asparagine :</p> <p>A4 Phenylalnine&amp; Proline :</p>	4.0	1.00
Objective Question				
99	99	<p>Protein fluorescence arises primarily from which residue?</p> <p>A1 Arginine :</p>	4.0	1.00

		<p>A2 : Tryptophan</p> <p>A3 : Tyrosine</p> <p>A4 : Phenylalanine</p>		
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Objective Question				
100	100	<p>The sequence of letters 'WYQN' will represent</p> <p>A1 : Tryptophan, tyrosine, glutamic acid, asparagine</p> <p>A2 : Tryptophan, tyrosine, glutamine, asparagine</p> <p>A3 : Tryptophan, glutamine, tryptophan, asparagine</p> <p>A4 : Glutamine, tyrosine, tryptophan, aspartic acid</p>	4.0	1.00