Module Name : Five year Integrated MSc Prgrm Mathematics Computer Science Statistics-E
Exam Date : 18-Sep-2020 Batch : 16:00-18:00

Sr. No.	Client Question ID	Question Body and Alternatives	Marks	Negative Marks
Objective Question				
1	1	Which of the following points are collinear? A1 : (0,0,-10), (0,3,0), (1,4,5) A2 : (2,0,0), (0,4,0), (0,0,6) A3 : (5,3,-2), (3,2,1), (-1,0,7) A4 : (2,3,0), (34,35,0), (2,2,2)	4.0	1.00
Objective Question				
2	2	The acute angle between the line joining the points (3,1,-2), (4,0,-4) and (4,-3,3), (6,-2,2) is A1 : $\frac{\pi}{3}$ A2 : $\frac{\pi}{6}$ A3 : $\frac{\pi}{7}$ A4 : $\frac{\pi}{4}$	4.0	1.00
Objective Question				
3	3	The angle between the planes 2x-y+z = 6 and x+y+2z = 3 is A1 : $\frac{\pi}{3}$ A2 : $\frac{\pi}{6}$ A3 : $\frac{\pi}{7}$ A4 : $\frac{\pi}{4}$	4.0	1.00
Objective Question				
4	4	The function $f: R \to R$ defined by f(x)=tan x is A1 : bijective	4.0	1.00

		A2 : injective but not surjective A3 : surjective but not injective A4 : neither injective nor surjective		
Objective Question				
5	5	How many odd numbers in the range 1000-9999 have no repeated digits and end with 2? A1 : 3456 A2 : 1792 A3 : 0 A4 : 2296	4.0	1.00
Objective Question				
6	6	Let X and Y be sets with $\|X\|=m$ and $\|Y\|=n$, $m<n$. How many injective functions are there from X to Y? A1 : m! A2 : n! A3 : 1 A4 : n(n-1)(n-2)…(n-m+1)	4.0	1.00
Objective Question				
7	7	If there are 3 boys and 4 girls, how many way can they it in a row if the first is always a boy and last is always a girl? A1 : 7! A2 : 3!×4! A3 : 5!×3×4 A4 : 5!	4.0	1.00
Objective Question				
8	8		4.0	1.00

		What is the coefficient of x^{11} in the expansion of $\left(2x^2-\frac{x}{2}\right)^{12}$? A1 : $\frac{1}{16}\binom{12}{8}$ A2 : $\frac{1}{12}\binom{12}{8}$ A3 : $\frac{1}{8}\binom{12}{8}$ A4 : 0		
Objective Question				
9	9	If z_1 & z_2 are two complex numbers such that $Im(z_1+z_2)= 0$ and $Im(z_1 z_2) = 0$ then A1 : $z_1 = z_2$ A2 : $z_1 = -z_2$ A3 : $z_1 = \bar{z_2}$ A4 : $z_1 = -\bar{z_2}$	4.0	1.00
Objective Question				
10	10	If a person has 100 letter in his hand and there are 20 letter boxes, in how many ways can he post the 100 letters in the 20 letter boxes? A1 : 20 x 100 A2 : 20^{100} A3 : 100^{20} A4 : 20!	4.0	1.00
Objective Question				
11	11	$\int \frac{x}{\sqrt{x+2}} dx =$ A1 : $\frac{2}{3}(x-4)\sqrt{x+2}+c$ A2 : $\frac{2}{3}(x+8)\sqrt{x+2}+c$	4.0	1.00

		A3 : $(2x-4)\sqrt{x+2}+c$ A4 : $(2x+4)\sqrt{x+2}+c$		
Objective Question				
12	12	The possible number of different orders that a matrix can have when it has 48 elements, is A1 : 8 A2 : 16 A3 : 10 A4 : 48	4.0	1.00
Objective Question				
13	13	The angle between two diagonals of a cube A1 : $\cos^{-1}\frac{1}{2}$ A2 : $\cos^{-1}\frac{1}{\sqrt{2}}$ A3 : $\cos^{-1}\frac{1}{\sqrt{3}}$ A4 : $\cos^{-1}\frac{1}{3}$	4.0	1.00
Objective Question				
14	14	The value of $x=\sqrt{12+\sqrt{12+\sqrt{12+\cdots}}}\ldots$ is A1 : 3 A2 : 1 A3 : 4 A4 : ∞	4.0	1.00
Objective Question				
15	15	Let $\Delta=\begin{vmatrix}0 & b-a & c-a\\ a-b & 0 & c-b\\ a-c & b-c & 0\end{vmatrix}$, then Δ equal to	4.0	1.00

		A1 : a+b+c A2 : –(a+b+c) A3 : abc A4 : 0		
Objective Question				
16	16	What is the midpoint of the line joining the points (4,5,3) and (10,11,7)? A1 : (1,4,5) A2 : (2,4,3) A3 : (1,2,5) A4 : (7,8,5)	4.0	1.00
Objective Question				
17	17	If an unbiased coin is tossed 5 times, what is the probability to get 2 heads and 3 tails? A1 : 5/16 A2 : 2/32 A3 : 5/32 A4 : 6/32	4.0	1.00
Objective Question				
18	18	Sum of the series S = $1^2-2^2+3^2-4^2+5^2-6^2+\cdots-1000^2+1001^2$ is A1 : 100051 A2 : 100501 A3 : 501501 A4 : 201201	4.0	1.00

Objective Question				
19	19	If f(x) = [x]+[-x], where [x] denotes the greatest integer not greater than x, then for any integer *m* A1 : f is continuous at x=m A2 : $\lim_{x \to m} f(x)$ exists and is equal to f(m) A3 : $\lim_{x \to m} f(x)$ exists and is not equal to f(m) A4 : f is differentable at x=m	4.0	1.00
Objective Question				
20	20	If S={[1],[3],[4],[5],[9]} is an abelian group under multiplication modulo 11, then the inverse of [9] is A1 : [4] A2 : [1] A3 : [3] A4 : [5]	4.0	1.00
Objective Question				
21	21	In the multiplicative group of non-zero congruence class modulo 7, the order of the element [3] is A1 : 6 A2 : 4 A3 : 7 A4 : 3	4.0	1.00
Objective Question				
22	22	In the power set of {1,2,3,4,5,6}, how many sets contain the elements 2 and 6? A1 : 2^0 A2 : 2^2 A3 : 2^6 A4 2^4	4.0	1.00

		:		
Objective Question				
23	23	Angel between the parabolas $y^2 = x$ and $x^2 = y$ at origin is A1 : $2\tan^{-1}(3/4)$ A2 : $\tan^{-1}(4/3)$ A3 : $\frac{\pi}{2}$ A4 : $\frac{\pi}{4}$	4.0	1.00
Objective Question				
24	24	Sum of all the values of x satisfying the equation $log_{100}log_7\left(\sqrt{x+7}+\sqrt{x}\right)=0$ is A1 : 25 A2 : 9 A3 : 171 A4 : 10	4.0	1.00
Objective Question				
25	25	When the eccentricity of an ellipse becomes zero then ellipse becomes a A1 : straight line A2 : circle A3 : point A4 : pair of straight lines	4.0	1.00
Objective Question				
26	26	Let A = {1,2,{3,4},5}. Which of the following statements is incorrect? A1 : $\{\emptyset\} \subset A$ A2 : $\{\{3,4\}\} \subset A$ A3 $1 \in A$	4.0	1.00

		: A4 : $\{1,2,5\} \subset A$		
Objective Question				
27	27	For a set A, let $P(A)$ denote its power set. Then $P(P(\emptyset))$ is A1 : $\emptyset$ A2 : $\{\emptyset\}$ A3 : $\{\{\emptyset\}\}$ A4 : $\{\emptyset, \{\emptyset\}\}$	4.0	1.00
Objective Question				
28	28	Let A and B be two finite sets. Which of the following statements is FALSE? [Here P(A) denotes the power set of A and |A| denotes thenumber of elements of A] A1 : $P(A) = P(B) \Longrightarrow A = B$ A2 : $P(A \cup B) = P(A) \cup P(B)$ A3 : $P(A \cap B) = P(A) \cap P(B)$ A4 : $\|P(A \times B)\| = 2^{\|A\| \times \|B\|}$	4.0	1.00
Objective Question				
29	29	The value of Sin 15^o is A1 : $\frac{\sqrt{3}-1}{2\sqrt{2}}$ A2 : $\frac{\sqrt{3}+1}{2\sqrt{2}}$ A3 : $\frac{\sqrt{3}-1}{\sqrt{2}}$ A4 : $\frac{\sqrt{3}+1}{\sqrt{2}}$	4.0	1.00
Objective Question				
30	30	The value of $\tan\frac{\pi}{8}$ is A1 : $\sqrt{2}-1$	4.0	1.00

		A2 : $\sqrt{2}+1$ A3 : $1-\sqrt{2}$ A4 : $-1-\sqrt{2}$		
Objective Question				
31	31	How many two digit even numbers can be formed from the digits 1,2,3,4,5, if the digits can be repeated? A1 : 10 A2 : 25 A3 : 120 A4 : 60	4.0	1.00
Objective Question				
32	32	How many four digit numbers can be formed using the digits 1 to 9, if repetition of digits is not allowed? A1 : 3024 A2 : 2034 A3 : 3042 A4 : 4203	4.0	1.00
Objective Question				
33	33	What is the number of ways of choosing four cards of the same colour from a pack of 52 playing cards? A1 : 20099 A2 : 29900 A3 : 4 A4 : 14950	4.0	1.00
Objective Question				
34	34	The equation of the parabola with vertex at (0,0) and focus at (0,2) is	4.0	1.00

		A1 : $y^2=8x$ A2 : $x^2=8y$ A3 : $y^2=4x$ A4 : $x^2=4y$		
Objective Question				
35	35	The value of $\lim_{x\to 0}\frac{x^{15}-1}{x^{10}-1}$ is A1 : 3/4 A2 : 3/2 A3 : -3/4 A4 : -3/2	4.0	1.00
Objective Question				
36	36	The value of $\lim_{x\to 0}\frac{\tan x}{x}$ is A1 : 1 A2 : 0 A3 : -1 A4 : ∞	4.0	1.00
Objective Question				
37	37	If $f:\mathbb{R}\to\mathbb{R}$ is defined as $f(x)=\begin{cases}\frac{\lvert x\rvert}{x}, x\neq 0\\ 0, x=0\end{cases}$, then the $\lim_{x\to 0} f(x)$ is equal to A1 : 0 A2 : 1 A3 : -1	4.0	1.00

		A4 : Does not exist		
Objective Question				
38	38	If the function $f(x)$ satisfies $\lim_{x\to 1}\frac{f(x)-2}{x^2-1}=\pi$ then $\lim_{x\to 1} f(x)$ is equal to A1 : 2 A2 : 0 A3 : $-\pi$ A4 : π	4.0	1.00
Objective Question				
39	39	Let $f:\mathbb{R}\setminus\left\{-\frac{4}{3}\right\}\to\mathbb{R}$ be a fraction defined as $f(x)=\frac{4x}{3x+4}$. The inverse of f is the map $g:Rangef\to\mathbb{R}\setminus\left\{-\frac{4}{3}\right\}$ given by A1 : $g(y)=\frac{3y}{3-4y}$ A2 : $g(y)=\frac{4y}{4-3y}$ A3 : $g(y)=\frac{4y}{3-4y}$ A4 : $g(y)=\frac{3y}{4-3y}$	4.0	1.00
Objective Question				
40	40	The binary equation $*$ on $\mathbb{N}$ defined as $a*b=a^3+b^3$ is A1 : Both associative and commutative A2 : Commutative but not associative A3 : Associative but not commutative A4 : Neither commutative nor associative	4.0	1.00
Objective Question				
41	41	Let A = {a,b,c}. Then number of relations containing (a,b) and (a,c) which are reflexive and symmetric but not transitive is A1 : 1	4.0	1.00

		A2 : 2 A3 : 3 A4 : 4		
Objective Question				
42	42	LetA = {1,2,3}.Then number of equivalence relations containing (1,2) is A1 : 1 A2 : 2 A3 : 3 A4 : 4	4.0	1.00
Objective Question				
43	43	The value of the $\int_0^1 \frac{\tan^{-1}x}{1+x^2}dx$ is A1 : $\frac{\pi^2}{32}$ A2 : $\frac{\pi^2}{36}$ A3 : $\frac{-\pi^2}{36}$ A4 : $\frac{\pi^2}{8}$	4.0	1.00
Objective Question				
44	44	The value of the $\int_{-1}^1 sin^5 x cos^4 x dx$ is A1 : $\frac{\pi}{2}$ A2 : $\frac{-\pi}{2}$ A3 : 1 A4 : 0	4.0	1.00
Objective Question				
45	45	The area of the region bounded by the two parabolas $y = x^2$ and $x = y^2$is	4.0	1.00

		A1 : 1/3 A2 : 2/3 A3 : 1 A4 : $\frac{1}{\sqrt{3}}$		
Objective Question				
46	46	The area bounded by the curve $y = \cos x$ between $x = 0$ and $x = 2\pi$ is A1 : $\sqrt{3}\pi$ A2 : $2\sqrt{3}$ A3 : 2π A4 : 4	4.0	1.00
Objective Question				
47	47	The area of the region $\{(x,y): y \geq x^2 \text{ and } y \leq \lvert x \rvert\}$ is A1 : 1/3 A2 : 2/3 A3 : 1/2 A4 : 1	4.0	1.00
Objective Question				
48	48	The area bounded by the curve y = x|x|, X-axis and the ordinates x = 1 and x = -1 is given by A1 : 0 A2 : 1/3 A3 : 2/3 A4 : 4/3	4.0	1.00

Objective Question				
49	49	The degree of the differential equation $\left(\frac{d^2y}{dx^2}\right)^3 + \left(\frac{dy}{dx}\right)^2 + \sin\left(\frac{dy}{dx}\right) + 1 = 0$ is A1 : 3 A2 : 2 A3 : 1 A4 : Not defined	4.0	1.00
Objective Question				
50	50	The particular solution of the differential equation $\frac{dy}{dx} = -4xy^2$, given that $y = 1$, when $x = 0$ is A1 : $y = \frac{1}{2x^2+1}$ A2 : $y = \frac{1}{2x^2-1}$ A3 : $y = \frac{x}{2x^2+1}$ A4 : $y = \frac{x}{2x^2-1}$	4.0	1.00
Objective Question				
51	51	The function $f: \mathbb{R} \to \mathbb{R}$ defined as $f(x) = \begin{cases} x^2 \sin\frac{1}{x}, if\ x \neq 0 \\ 0, if\ x = 0 \end{cases}$ is A1 : Continuous at 0 but not differentiable at 0 A2 : Differentiable at 0 but not continuous at 0 A3 : Neither differentiable nor continuous at 0 A4 : Both differentiable and continuous at 0	4.0	1.00
Objective Question				
52	52	The number of elements in a set {(a,b) $\mid 2a^2 + 3b^2 = 35$, a,b integers }	4.0	1.00
		A1 : 2 A2 : 4		

		A3 : 8 A4 : 12		
Objective Question				
53	53	If $H_a = \{an: n \in N\}$ then $H_3 \cap H_7$ equal to A1 : H_3 A2 : H_7 A3 : H_1 A4 : H_{21}	4.0	1.00
Objective Question				
54	54	Let S be the set of integers, the relation ~ defined on $S \times S$ as (a,b) ~ (c,d) if ad = - bc, then A1 : ~ is transitive but not symmetric A2 : ~ is symmetric but not transitive. A3 : ~ is neither symmetric nor transitive A4 : ~ is reflexive, symmetric and transitive.	4.0	1.00
Objective Question				
55	55	Let $f(x) = \frac{ax+b}{cx+d}$. If f(f(x)) = x then A1 : a= 0 A2 : ab = bd A3 : d=0 A4 : a = -d	4.0	1.00
Objective Question				
56	56	Which one of the following is a bijective mapping from Z, the ring of integers, to itself	4.0	1.00

		A1 : f(x) = 5 A2 : f(x) = 5x A3 : f(x) = 5 + x A4 : f(x) = $5x^2$		
Objective Question				
57	57	If the roots of the equation $2x^2-(p+1)x+p-1 = 0$ are a and b with a-b = ab , then A1 : p = 2 A2 : p = 4 A3 : p = 8 A4 : p = 0	4.0	1.00
Objective Question				
58	58	If a and b are the roots of the equation $x^2 - \sqrt{a}x + b = 0$ then A1 : a = 0 and b = 1 A2 : a = 1 and b = 1 A3 : a = 1 and b = - 1 A4 : a = 1 and b = 0	4.0	1.00
Objective Question				
59	59	If A is a square matrix, with $A^2 = A$ then $(I – A)^n$ is equal to A1 : $I + 2^n A$ A2 : $I – (2^n + 1) A$ A3 : $I + (2^n – I) A$ A4 : $I + (2^n + I) A$	4.0	1.00

Objective Question				
60	60	If A and B are square matrices such that $A^2 - B^2 = (A + B)(A - B)$ A1 : $A = B$ A2 : $A = B = I$ A3 : $AB = -BA$ A4 : $AB = BA$	4.0	1.00
Objective Question				
61	61	How many four letter words can be formed from the set of alphabets {a,b,c,d,e,f,g} A1 : $7^4 - 7$ A2 : ${}^7P_4 - 7$ A3 : $7^4 - {}^7P_4$ A4 : 7!	4.0	1.00
Objective Question				
62	62	There are n different locks and there are n different keys for them. To match the locks with correct keys the maximum number of needed trials is A1 : n! A2 : 2n A3 : n^2 A4 : n(n+1)/2	4.0	1.00
Objective Question				
63	63	The coefficient of x^{11} in the expansion $(1+ 3x + 2x^2)^6$ is A1 : 264 A2 : 576 A3 : 624	4.0	1.00

		A4 : 744		
Objective Question				
64	64	The sum of first (2n + 1) terms in the series a – (a+d) + (a+2d) – (a+3d) ... is equal to A1 : 2nd A2 : a + 2nd A3 : a – nd A4 : a + nd	4.0	1.00
Objective Question				
65	65	Suppose f is a real valued function defined on Real numbers such that f(x+y) = f(x) + f(y). Then A1 : f is an even function A2 : f is an odd function A3 : f is neither even nor odd function A4 : f is not a sum of an odd function and an even function	4.0	1.00
Objective Question				
66	66	Let $x_1 = 5$ and $x_{n+1} = \sqrt{2 + x_n}$ n>0, then $lim_{n\to\infty} x_n$ equal to A1 : 0 A2 : 2 A3 : 3 A4 : infinity	4.0	1.00
Objective Question				
67	67	$\lim_{x\to\infty} x^{1/x}$ is equal to A1 : 0 A2 : 1	4.0	1.00

		A3 : e A4 : infinity		
Objective Question				
68	68	If $lim_{x\to a}\frac{a^x-x^a}{x^x-a^a}=-1$ with a > 0 then A1 : a = 0 A2 : a = 1 A3 : a = e A4 : a = 1/e	4.0	1.00
Objective Question				
69	69	If $\overrightarrow{AO}+\overrightarrow{OB}=\overrightarrow{BO}+\overrightarrow{OC}$, then A, B, C are A1 : coplanar A2 : non coplanar A3 : coplanar but need not be collinear A4 : collinear	4.0	1.00
Objective Question				
70	70	Let A be a subset of S such that A ∪ B = B for every finite subset B of S. Then A1 : S is empty set A2 : A is empty set A3 : S = A A4 : A is an infinite subset	4.0	1.00
Objective Question				
71	71	Let A be a subset of B. (i) each element of A is an element of B (ii) if x is not an element of B then x is not an element of A.	4.0	1.00

		A1 : Both (i) and (ii) are true. A2 : (i) is true but (ii) is not true. A3 : (ii) is true but (i) is not true. A4 : Neither (i) nor (ii) is true		
Objective Question				
72	72	If an integer n divides a product ab and n does not divide a A1 : n always divides b A2 : n divides b if b is a composite number A3 : n divides b if n is a prime number A4 : n divides b if b is a prime number	4.0	1.00
Objective Question				
73	73	The function f(x) = 3x(x-2) has A1 : maximum at x = 1 A2 : minimum at x = 1 A3 : minimum at x = 2 A4 : maximum at x = -1	4.0	1.00
Objective Question				
74	74	If z and w be two complex numbers such that $\|z\| \leq 1, \|w\| \leq 1$ and $\|z + iw\| = \|z - iw\| =$ 2 then z equals A1 : 1 or i A2 : i or –i A3 : 1 or -1 A4 : i or -1	4.0	1.00

Objective Question

75	75	If z_1 and z_2 be complex numbers such that $z_1 \neq z_2$ and $\|z_1\| = \|z_2\|$. If z_1 has positive real part and $z_2$has negative imaginary part then $\frac{z_1 + z_2}{z_1 - z_2}$may be A1 : Zero A2 : Real and positive A3 : Real and negative A4 : None of these	4.0	1.00

Objective Question

76	76	If ω is an imaginary cube root of unity the $(1+\omega+\omega^2)^7$ equals A1 : $128\,\omega$ A2 : $-128\,\omega$ A3 : $128\,\omega^2$ A4 : $-128\,\omega^2$	4.0	1.00

Objective Question

77	77	The complex number z_1, z_2 and z_3 satisfying $\frac{z_1 - z_3}{z_2 - z_3} = \frac{1 - i\sqrt{3}}{2}$ are the vertices of a triangle which is A1 : of area zero A2 : Right angled isosceles triangel A3 : Equilateral triangel A4 : Obtuse angle isosceles triangle	4.0	1.00

Objective Question

78	78	If z_1 and z_2 be the n^{th} roots of unity which subtend a right angle at the origin, then 'n' must be of the form A1 : 4k+1 A2 : 4k+2	4.0	1.00

		A3 : 4k+3 A4 : 4k		
Objective Question				
79	79	What is $\sqrt{-6}\sqrt{-6}$? A1 : 6 A2 : -6 A3 : 6i A4 : -6i	4.0	1.00
Objective Question				
80	80	The complex number z is such that $\|z\| = 1, \|z\| \neq 1$ and $w = \frac{z-1}{z+1}$, then real part of w is A1 : $\frac{1}{\|z+1\|^2}$ A2 : $\frac{-1}{\|z+1\|^2}$ A3 : $\frac{\sqrt{2}}{\|z+1\|^2}$ A4 : 0	4.0	1.00
Objective Question				
81	81	Mean of 10 observations is 5, if a constant 4 is added to every observation, then the new mean is A1 : New Mean > Old Mean A2 : New Mean < Old Mean A3 : New Mean = Old Mean A4 : New Mean is no way related to Old Mean	4.0	1.00
Objective Question				
82	82	The median of 10 observations is equal to 50 if 3 is added to each observation, then the new median value is A1 : 10	4.0	1.00

		A2 : 13 A3 : 50 A4 : 53		
Objective Question				
83	83	The following relation holds good with GM = A1 : $(A.M. * H.M)^2$ A2 : $(A.M.* H.M)^{1/2}$ A3 : (A.M. * H.M) A4 : (A.M. +H.M)/2	4.0	1.00
Objective Question				
84	84	Which of the following measure can make use of the 100% data A1 : Median A2 : Minimum A3 : Mean A4 : Maximum	4.0	1.00
Objective Question				
85	85	A.M. of 'n' numbers of a series is $\bar{X}$. After calculations, it was observed that two number 'a' and 'b' misread in the place of 'c' and 'd'. what is the corrected mean value A1 : $\frac{n\bar{X}-(a+b)+(c+d)}{n}$ A2 : $\frac{\bar{X}-(a+b)+(c+d)}{n}$ A3 : $\frac{n\bar{X}-(a+b)+(c+d)}{(n+1)}$ A4 : $\frac{n\bar{X}-(a+b)+(c+d)}{(n-1)}$	4.0	1.00
Objective Question				

86	86	The Range of the following data is 23,1,21,24,43,51,15,26,13 A1 : 1 A2 : 25 A3 : 50 A4 : 51	4.0	1.00
Objective Question				
87	87	The limits of Standard Deviation are A1 : -∞ to +∞ A2 : 0 to ∞ A3 : 0 to 1 A4 : -1 to +1	4.0	1.00
Objective Question				
88	88	Axiomatic approach to the probability was due to A1 : A.N.Kolmogorov A2 : De-movier A3 : Von-mises A4 : Pascal	4.0	1.00
Objective Question				
89	89	A card is drawn from a well shuffled pack of cards. The probability of the card drawn is either spade or Ace is = A1 : 13/52 A2 : 4/52 A3 : 17/52 A4 : 16/52	4.0	1.00

Objective Question				
90	90	Probability of getting Diamond King card from a well shuffled pack of cards is equal to A1 : 21/36 A2 : 1/ 4 A3 : 1/52 A4 : 1/13	4.0	1.00
Objective Question				
91	91	If a bag contains 3 Red balls, 6 Green balls and 9 Yellow balls, a ball is drawn at random from the bag. What is the chance that randomly drawn ball is either Green or Red A1 : 3/18 A2 : 6/18 A3 : 9/18 A4 : 12/18	4.0	1.00
Objective Question				
92	92	Probability of getting both dice shown the same number when pair of dice are rolled simultaneously A1 : 3/6 A2 : 1/6 A3 : 2/6 A4 : 4/6	4.0	1.00
Objective Question				
93	93	Given that P(A) = 1/3, P(B) = 3/4, P(A U B) = 11/12, the probability, P(B/A) = A1 : 1/6 A2 : 4/9 A3 : 1/2	4.0	1.00

		A4 : 1/4		
Objective Question				
94	94	The odds in favour of a certain event are 5:4 and odds against another event are 4:3. the chance that at least one of them will happen is by assuming the events are independent A1 : 15/63 A2 : 51/63 A3 : 47/63 A4 : 7/63	4.0	1.00
Objective Question				
95	95	If the probabilities of passing in an examination for a boy and a girl are 3/5 and 2/5 respectively, then the chance passing at least one of them is A1 : 6/25 A2 : 15/25 A3 : 19/25 A4 : 2/25	4.0	1.00
Objective Question				
96	96	Probability of getting a square number as outcome when a single die is thrown is A1 : 1/6 A2 : 2/6 A3 : 3/6 A4 : 4/6	4.0	1.00
Objective Question				
97	97	Let the event A be getting even number and B be the event of getting even squared number when a die is thrown. Then the probability of getting $A \cap B$ A1 : 3/6	4.0	1.00

		A2 : 2/6 A3 : 1/6 A4 : 4/6		
Objective Question				
98	98	Probability of getting either all tails of all heads when 5 coins are tossed simultaneously, A1 : 4/32 A2 : 3/32 A3 : 1/32 A4 : 2/32	4.0	1.00
Objective Question				
99	99	A box contains ‘a’ white balls and ‘b’ black balls; If 'c' balls are drawn from the box then the expected number of white balls among the c balls is A1 : $c*\left(\frac{a-b}{a+b}\right)$ A2 : $c*\left(\frac{a}{a+b}\right)$ A3 : $c*\left(\frac{a}{a-b}\right)$ A4 : $c*\left(\frac{ab}{a+b}\right)$	4.0	1.00
Objective Question				
100	100	If A and B are exclusive events then P(A/B) = A1 : P(A) A2 : P(B) A3 : 0 A4 : 1	4.0	1.00