

## **SAGE University Indore Institute of Computer Application** Mid-Semester Test I BCA semester I: Oct -2023

Institute Name: Computer Application	6.11
	Subject- BRIDGE MATHEMATICS
Program Name: BCA	
G - an ivaline; BCA	Branch: BCA
C.	STATE OF THE PROPERTY OF THE P
Semester: I	
	Section: A,B,C,D
Subject Code:	
anject Code;	Session: July Dec 2023-24
	Scoton, day Sec 2023-24
Unit Test No:	
	Date of Test:13/10/2023
Max M. L. an	
Max. Marks: 20	Allotted Time: (90 min duration max)
	Time. (50 min duration max)
Course Outcome (CO) No.1:	V V
Course Outcome (CO) No.2:	
Course Outcome (CO) No.2:	
Course Outcome (CO) No.3:	
Note: All Questions carry equal marks, Attempt any	five questions
, and the same of	five questions. A Lycrophy Indiana
	Andrew Comprise Arminettan

- Q1 a) A and B together have Rs. 1210. If  $\overline{15}$  of A's amount is equal to  $\overline{5}$  of B's amount, how much amount does B have?
- b) Two numbers are respectively 20% and 50% more than a third number. The ratio of the two numbers is: c) A sum of money is to be distributed among A, B, C, D in the proportion of 5: 2: 4: 3. If C gets Rs. 1000 more than D, what is B's share?
- Q2 find mean median mode

	A STATE OF THE STATE OF THE ACCUMULATION OF THE
0-10	SURFER RESULTED TO A TREATMENT OF STATES
10-20	3 - 17 - 17 - 17 - 17 - 17 - 17 - 17 - 1
20-30	(4)
30-40	7.000 2
40-50	A CONTRACT OF THE PARTY OF THE
50-60	5
60-70	Section only in 2013-24
70-80	4
A SHEET OF THE PARTY OF THE PAR	the second of th

## Q3 find variance, standard deviation, COV

-	100-105	I Continue (1) proportion on the American Street and the American Street and the American Street and Ameri
	105-110	7
	110-115	2
	115-120	6
	120-125	4
40		3
	130-135	2

Q4 a) Tickets numbered 1 to 20 are mixed up and then a ticket is drawn at random. What is the probability that the ticket drawn has a number which is a multiple of 3 or 5?

- b) A bag contains 2 red, 3 green and 2 blue balls. Two balls are drawn at random. What is the probability that none of the balls drawn is blue?
- c) What is the probability of getting a sum 9 from two throws of a dice?



## **SAGE University Indore Institute of Computer Application** Mid-Semester Test I BCA semester I: Oct -2023

Q5) A batsman scored 110 runs which included 3 boundaries and 8 sixes. What percent of his total score did he make by running between the

 a) A fruit seller had some apples. He sells 40% apples and still has 420 apples. Originally, he had:
 b) in an election between two candidates, one got 55% of the total valid votes, 20% of the votes were invalid. If the total number of votes was 7500, the number of valid votes that the other candidate got, was:

Q6 a) Let  $U = \{1, 2, 3, 4, 5, 6\}$ ,  $A = \{2, 3\}$  and  $B = \{3, 4, 5\}$ .

Find A', B', A' ∩ B', A ∪ B

b) In a survey of 600 students in a school, 150 students were found to be drinking Tea and 225 drinking Coffee, 100 were drinking both

Tea and Coffee. Find how many students were drinking neither Tea nor Coffee.

Q7 find quartile deviation, mean deviation from median of the following data

6.50° ind value of	5
50-100 CK-1/K=3 FIND X3+1/X2  SNF-X+1/X=5 FIND X3+1/X2	8
100-150	9
150-200	11
200-250	8
250-300	9
300-350	6
350-400	4

Q8 Find value of

A)1012-992 b)if X+1/X =5, FIND X<sup>2</sup>+1/X<sup>2</sup> C)X-1/X=3 FIND X<sup>3</sup>+1/X<sup>3</sup>