

Mathematical and Statistical techniques– FYBCom - Sem I

1. When the market value of a share is more than its face value , then the share is said to be
 - (a) At par
 - (b) At a discounted rate
 - (c) At a premium rate
 - (d) None of the above
2. If Suresh invests Rs 10,320 on Rs 100 share at a discount of Rs 14 , then the number of shares he buys is
 - (a) 110
 - (b) 120
 - (c) 130
 - (d) 150
3. The value of ${}^8P_3 + {}^7P_2$ is
 - (a) 654
 - (b) 645
 - (c) 564
 - (d) 378
4. The number of 3 letter words that can be arranged using the letters of the word 'FLOWER' exactly once is _____.
 - (a) 20
 - (b) 720
 - (c) 120
 - (d) 6
5. If there are extreme values present in the data the following measure is suitable
 - (a) Arithmetic Mean
 - (b) Median
 - (c) Harmonic Mean
 - (d) Geometric Mean
6. If there are 2 groups with 50 observations each and with 25 and 35 as values of AM , the combined mean of 100 observation is
 - (a) 25
 - (b) 30

(c) 35

(d) 50

7 The probability of event is equal to zero is called---

(a) Sure event

(b) Unsure event

(c) Impossible event

(d) Independent event

8 If a random variable X has the following probability distribution X -1 -2 1 2 P(x)
1/3 1/6 1/3 1/6 Then the expected value of X is

(a) 1.5

(b) 1

(c) 0.5

(d) none of the above

9 Which of the following is not a component of decision making?

(a) Decision maker

(b) States of nature

(c) Course of actions

(d) Profiting organization

10 For the following pay-off table, what is the expected monetary value (EMV) of A_2 ?

Course of actions	States of nature		
	S_1	S_2	S_3
A_1	24	36	-26
A_2	32	22	16
A_3	12	-8	0
A_4	28	42	34
Probability	0.3	0.5	0.2

(a) 46

(b) 70

(c) 6.36

(d) 23.8