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MM 20

Probability

Time 40 min

Section A 1 Marks Each

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1. In a study of 500 people, 325 people have a high school certificate. If a person is selected at random, the probability that the person does not have a high school certificate is :

- (A) 0.5 (B) 0.35 (C) 0.65 (D) 0.8

2. Two coins are tossed 1000 times and the outcomes are given below. Probability of at least one tail is

No. of heads	2	1	0
Frequency	240	490	270

- (A) 0.24 (B) 0.49 (C) 0.73 (D) 0.76

3. Probability of getting an even prime no. in a single throw of a die is

- (A) 0.5 (B) 0.25 (C) 0.33 (D) 0.67

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4. The probability of getting 53 Sundays in a non leap year  
(A) 0.14 (B) 0.28 (C) 0.56 (D) 0
5. find the probability of drawing a card of hearts or spades from a well shuffled pack of 52 cards.  
(A) 0.5 (B) 0.25 (C) 0.3 (D) none of these

**Section B 2 Marks Each**

6. Can the experimental probability of an event be a negative number? If not, why?
7. With increase in number of tosses, the probability of getting a head approaches the theoretical Probability. Justify.

**Section B 3 Marks Each**

8. A bag contains 6 black, 7 red and 2 white balls. A ball is drawn from the bag at random, find the probability that the ball drawn is (1) red (2) black or white (3) no black

**Section D 4 Marks Each**

9. During the past 200 working days, the number of defective parts produced by a machine is given below. Find probability that tomorrow's output will have (i) no defective part (ii) atleast one defective part (iii) not more than 5 defective parts (iv) more than 13 defective parts

No. of defective parts	0	1	2	3	4	5	6	7	8	9	10	11	12	13
Days	50	32	22	18	12	12	10	10	10	8	6	6	2	2

10. Here is an extract from a mortality table. (i) Based on this information, what is the probability of a person 'aged 60' of dying within a year? (ii) What is the probability that a person 'aged 61' will live for 4 years?

Age	60	61	62	63	64	65
No. of Persons	1200	850	700	525	350	250

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