Sri Raghavendra Tuition Center

Probability pre quaterly exam

10th Standard

Maths

Date : 17-09-24

Reg.No. : | | | | | | |

Exam Time : 00:30 Hrs

Total Marks : 25

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Centum Book Available

I. Multiple Choice Question. 1 x 1 = 1

1) A page is selected at random from a book. The probability that the digit at units place of the page number chosen is less than 7 is

(a) $\frac{3}{10}$ (b) $\frac{7}{10}$ (c) $\frac{3}{9}$ (d) $\frac{7}{9}$

II. Answer all two marks. 7 x 2 = 14

2) Two coins are tossed together. What is the probability of getting different faces on the coins?

3) What is the probability that a leap year selected at random will contain 53 saturdays. (Hint: 366 = 52 x 7 + 2)

4) Write the sample space for selecting two balls from a bag containing 6 balls numbered 1 to 6 (using tree diagram).

5) If P(A) = 0.37, P(B).= 0.42, P(A∩B) = 0.09 then find P(AUB).

6) If P(A) = $\frac{2}{3}$, P(B) = $\frac{2}{5}$, P(A U B) = $\frac{1}{3}$ then find P(A ∩ B).

7) A and B are two events such that, P(A) = 0.42, P(B) = 0.48, P(A ∩ B) = 0.16. Find (i) P(not A) (ii) P(not B) (iii) P(A or B)

8) If A and B are two mutually exclusive events of a random experiment and P(not A) = 0.45, P(A U B) = 0.65, then find P(B).

III. Answer all five Marks 2 x 5 = 10

9) Two unbiased dice are rolled once. Find the probability of getting

(i) a doublet (equal numbers on both dice)

(ii) the product as a prime number

(iii) the sum as a prime number

(iv) the sum as 1

10) A bag contains 5 white and some black balls. If the probability of drawing a black ball from the bag is twice the probability of drawing a white ball then find the number of black balls.

All the best

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