Class 10 Unit Test: Statistics and Probability

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Maximum Marks: 25 **Duration: 45mins**

Multiple Choice Questions

1. If the probability of a player winning a game is 0.79, then the probability of his losing the same game is:
   (a) 1.79 (b) 0.31 (c) 0.21% (d) 0.21
2. From the data 1, 4, 7, 9, 16, 21, 25, if all the even numbers are removed, then the probability of getting at random a prime number from the remaining is :
   (a) 1/5 (b) 2/5 (c) 1/7 (d) 2/7
3. Consider the frequency distribution of 45 observations.

Class	0-10	10-20	20-30	30-40	40-50
Frequency	5	9	15	10	6

The upper limit of median class is
(a) 20 (b) 10 (c) 30 (d) 40

2 marks Questions

4. How many positive three digit integers have the hundredths digit 8 and unit's digit 5? Find the probability of selecting one such number out of all 3 digit numbers.
5. For a moderately skewed distribution, the mode and median are respectively 30.1 and 27.9. What is the mean of the distribution?

3 marks Questions

6. The mode of the following data is 67. Find the missing frequency x.

Class	40-50	50-60	60-70	70-80	80-90
Frequency	5	x	15	12	7

5 marks Questions

7. The monthly expenditure of milk in 200 families of a housing society is given below

Monthy Expenditure (in ₹)	1000-1500	1500-2000	2000-2500	2500-3000	3000-3500	3500-4000	4000-4500	4500-5000
Number of Families	24	40	33	X	30	22	16	7

Find the value of x and also, find the median and mean of expenditure.

Solution to the Test

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8. Two different dice are thrown together. Find the probability that the number obtained have
   (i) even sum
   (ii) even product

Case Study: 5 marks Questions

9. Cards on which numbers 1, 2, 3 ..... 100 are written (one number on one card and no number is repeated), put in a bag and are mixed thoroughly. A card is drawn at random from the bag.
   (i) What is the probability that card taken out has a odd number?
   (ii) What is the probability that card taken out has a two digit odd number?
   (iii) What is the probability that card taken out has a odd number which is multiple of 11?
   (iv) What is the probability that card taken out has an odd number which is not less than 70?
   (v) What is the probability that card taken out has an odd number which is not multiple of 11?

Solution to the Test

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