



BURARI PUBLIC SCHOOL

...a venture with **UNIQUE**

PERIODIC ASSIGNMENT - IV (2025-26)

CLASS: VIII

SUBJECT- MATHEMATICS Date ___/___/___

Time:

M.M.: 40

Name: Roll No..... T. sign.....

General Instructions:

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- This question paper has 5 sections.
- In section A, Question no. 1 - 8 are MCQs and Question no. 9 - 10 are Assertion – Reason based Question of 1 mark each.
- In Section B, Question no. 11 - 15 are very short answer (VSA) type questions, carrying 2 marks Each.
- In Section C, Question no. 16 - 18 are short answer (SA) type questions, carrying 3 marks each.
- In Section D, Question no. 19 - 20 are long answer (LA) type questions, carrying 4 marks each.
- In Section E, Question no. 21 is case based study question, carrying 3 marks.

Section A

- 1 A dice is rolled. The probability of getting an even prime number is [1]
 - a) $\frac{2}{3}$
 - b) $\frac{1}{2}$
 - c) $\frac{1}{6}$
 - d) $\frac{1}{3}$
- 2 A card is drawn at random from a pack of 52 cards. Find the probability that the card drawn is a black king. [1]
 - a) $\frac{1}{13}$
 - b) $\frac{1}{52}$
 - c) $\frac{1}{2}$
 - d) $\frac{1}{26}$
- 3 On tossing a coin, the outcome is [1]
 - a) neither head nor tail
 - b) only head
 - c) only tail
 - d) either head or tail

- 4 When a die is thrown, what is the probability of getting a number less than 4? [1]
- a) 1
 - b) $\frac{1}{4}$
 - c) 0
 - d) $\frac{1}{2}$
- 5 If 100 students take 20 days to complete the project how much time will be taken by 125 students? [1]
- a) 25
 - b) 16
 - c) 63
 - d) 7
- 6 If x and y vary inversely as each other, and x = 10 when y = 6. Find y when x = 15. [1]
- a) 4
 - b) 3
 - c) 2
 - d) 6
- 7 A and B can do a job in 16 and 12 days respectively. 4 days before finishing the job, A joins B. B has started the work alone. Find how many days B has worked alone? [1]
- a) 7 days
 - b) 2 days
 - c) 5 days
 - d) 12 days
- 8 Assuming land to be uniformly fertile, the area of land and the yield on it vary [1]
- a) neither directly nor inversely with each other
 - b) inversely with each other
 - c) sometimes directly and sometimes inversely with each other
 - d) directly with each other
- 9 **Assertion (A):** The measure of all the angles at the centre of the circle is 360° . [1]
- Reason (R):** If the information given in the bar graph is shown in a single circle, it is called a pie graph.
- a) Both A and R are true and R is the correct explanation of A.

- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) A is false but R is true.

10 Assertion (A): The journey (x km) undertaken by a car and the petrol (y litres) consumed by it are in inverse proportion. [1]

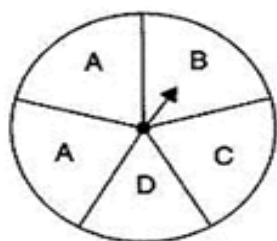
Reason (R): In inverse proportion value of both quantities increases simultaneously.

- a) Both A and R are true and R is the correct explanation of A.
- b) Both A and R are true but R is not the correct explanation of A.
- c) A is true but R is false.
- d) Both A and R are false.

Section B

11 Ritwik draws a ball from a bag that contains white and yellow balls. The probability of choosing a white ball is $\frac{2}{9}$. If the total number of balls in the bag is 36, then find the number of yellow balls. [2]

12 Find the probability of the pointer stopping on D in [2]



13 A labourer is paid ₹ 4950 for working for 11 days. How much money will he earn if he works for 30 days? [2]

14 If Naresh walks 250 steps to cover a distance of 200 metres, find the distance travelled in 350 steps. [2]

15 A train is moving at a uniform speed of 75 km/hour. Find the time required to cover a distance of 250 km. [2]

Section C

16 Draw a pie chart for the given data showing the favourite subject of students at a school. [3]

Subject	Maths	English	French	Science	Others
No. of students	595	420	225	385	175

17 When a die is thrown, find the probabilities of the events given below [3]

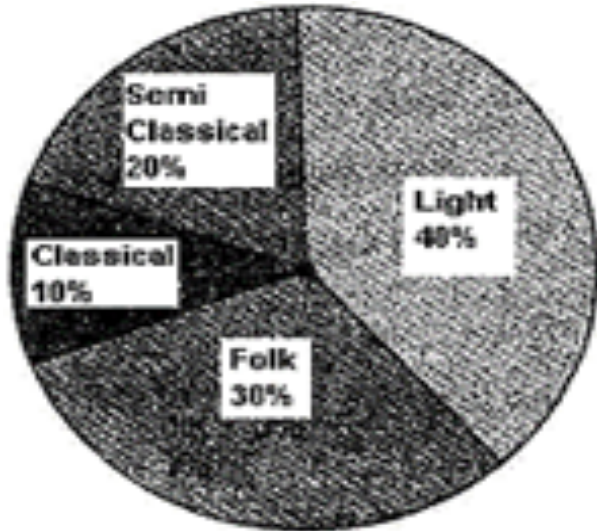
1.
 - a. a prime number
 - b. not a prime number.
2.
 - a. a number greater than 5

b. a number not greater than 5.

- 18 A factory requires 42 machines to produce a given number of articles in 63 days. How many machines would required to produce the same number of articles in 54 days? [3]

Section D

- 19 A survey was made to find the type of music that a certain group of young people liked in a city. The adjoining pie chart shows the findings of this survey. [4]



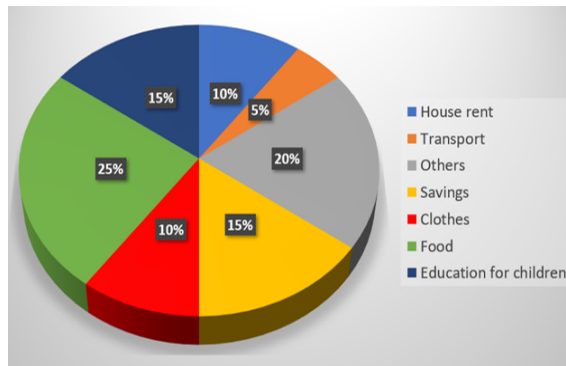
From this pie chart answer the following:

1. If 20 people liked classical music, how many young people were surveyed?
 2. Which type of music is liked by the maximum number of people?
 3. If a cassette company were to make 1000 CD's, how many of each type would they make?
- 20 The student of Anju's class sold posters to raise money. Anju wanted to create a ratio for finding the amount of money, her class would make for different numbers of posters sold. She knew they could raise ₹ 250 for every 60 posters sold. [4]
1. How much money would Anju's class make for selling 102 posters?
 2. Could Anju's class raise exactly ₹ 2000? If so, how many posters would they need to sell? If not, why?

Section E

Question No. 21 are based on the given text. Read the text carefully and answer the questions:

- 21 Below pie chart gives the expenditure (in percentage) on various items and savings of a family during a month. [3]



- I** On which item, the expenditure was maximum?
- a) Food
 - b) Clothes
 - c) House rent
 - d) Transport
- II** Expenditure on which item is equal to the total savings of the family?
- a) Food
 - b) Transport
 - c) Others
 - d) Education of children
- III** If the monthly savings of the family is ₹ 3000, what is the monthly expenditure on clothes?
- a) ₹ 300
 - b) ₹ 3000
 - c) ₹ 2000
 - d) ₹ 200