



**ST. MARGARET SR. SEC. SCHOOL**  
**MID TERM SAMPLE PAPER EXAMINATION 2024-25**  
**MATHEMATICS**  
**CLASS VII**

**Time: 2.5 Hrs**

**M.M: 60**

**Section-A**

**(Q1 to Q15 – MCQ Questions of 1 mark each)**

**Write correct option along with answer.**

Q1. The next number in the pattern -62, -37, -12, \_\_\_\_\_ is:

- (a) 25                                      (b) 13                                      (c) 0                                      (d) -13

Q2. The measure of the supplementary angles is

- (a)  $180^\circ$                                       (b)  $160^\circ$                                       (c)  $90^\circ$                                       (d)  $80^\circ$

Q3. \_\_\_\_\_ is not the measure of central tendency of the data.

- (a) Mean                                      (b) Median                                      (c) Mode                                      (d) Tally marks

Q4. Vertically opposite angles are always

- (a) complementary      (b) supplementary      (c) adjacent                                      (d) equal

Q5. The mode of the distribution: 2,3,4,7,5,1,6,6,4,5,3,2,2,4,5,4

- (a) 1                                      (b) 2                                      (c) 4                                      (d) 3

Q6. Find the value of  $(-45) \times (2) \times (-10) = ?$

- (a) 900                                      (b) 90                                      (c) -900                                      (d) -90

Q7. The difference between the highest and the lowest observations in a data is its

- (a) Frequency                                      (b) Median                                      (c) Mode                                      (d) Range

Q8. The interest on ₹20000 for 5 years at the rate off 15% per annum is \_\_\_\_\_

- (a) ₹1500                                      (b) ₹18000                                      (c) ₹10000                                      (d) ₹15000

Q9. The circumference of a circle of diameter 9 cm is

- (a) 9 cm                                      (b) 18 cm                                      (c)  $9\pi$  cm                                      (d)  $18\pi$  cm

Q10. When two positive integers are subtracted, we get

- (a) a positive integer                                      (b) a negative integer  
(c) integer of any sign                                      (d) none of these

Q11. Evaluate:  $[(-34) \div (-17)] \times 5$

- (a) 10                                      (b) -10                                      (c) -9                                      (d) 9

Q12. Suraj plants 8 saplings in a row in his garden. The distance between two adjacent

saplings is  $\frac{6}{7}$  m. Find the distance between the first and the last sapling.

- (a)  $\frac{48}{7}$  m                      (b) 7 m                      (c) 4m                      (d) 3m

Q13. 0.76 is equal to \_\_\_\_\_

- (a) 76%                      (b) 7600%                      (c) 7.60%                      (d) 0.76%

Q14. Out of 8 brands of chips in a shop, a boy has to purchase the brand which is most liked by children. What measure of central tendency or representative values would be appropriate if the data is provided to him?

- (a) Mean                      (b) Mode                      (c) Median                      (d) All of these

Q15. What is the range of these integers:

-11, 15, 0, -17, 6, 20, -4

- (a) 20                      (b) 31                      (c) 37                      (d) 3

### **SECTION-B**

**(Q16 to Q22 carry 2 marks each)**

Q16. Find the area of rectangle whose length is 9.8 cm and breadth is 7 cm.

Q17. Find the base, if the area of the triangle is  $36\text{cm}^2$  and height is 9cm.

Q18. Divide  $\frac{3}{10}$  by  $(\frac{1}{4} \text{ of } \frac{3}{5})$

Q19. Vardaan ordered a watch for ₹ 9,00,000. After few years, its price reduced to ₹ 8,50,000. What was the decrease percentage?

Q20. On selling an article for ₹3290, a dealer lost 6%. Find the cost price of the article.

Q21. The population of a village is 8000. Out of these, 80% are literate and of these literate people, 40% are women. Find the number of literate women.

Q22. Find the base, if the area of the parallelogram is  $49\text{cm}^2$  and height is 7cm.

### **SECTION-C**

**(Q23 to Q27 carry 3 marks each)**

Q23. The circumference of a circle is 6.28 cm. Find the radius and the area of the circle?

(Take  $\pi = 3.14$ )

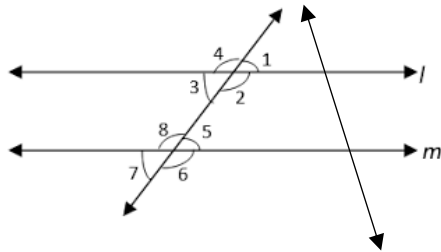
Q24. Find the amount to be paid at the end of 9 years if Principal is ₹2400 at 15% p.a.

Q25. In a test (+5) marks are given for every correct answer and (-2) marks are given for every incorrect answer. Radhika answered all the questions and scored (-12) marks though she got 4 correct answers. How many incorrect answers had she attempted?

Q26. Verify that  $a \div (b + c) \neq (a \div b) + (a \div c)$  for each of the following values of

$a = -8, b = -3$  and  $c = 5$

Q27. State the property that is used in each of the following statements:



- a) If  $l \parallel m$ , then  $\angle 4 = \angle 8$
- b) If  $\angle 3 = \angle 5$ , then  $l \parallel m$ .
- c) If  $\angle 3 + \angle 8 = 180^\circ$ , then  $l \parallel m$ .

**SECTION-D**

**(Q28 to Q31 carry 4 marks each)**

Q28. Consider this data collected from a survey of a country. Draw a bar graph choosing an appropriate scale.

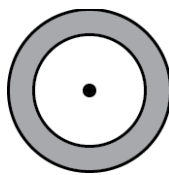
Colour	Red	Blue	Silver	Orange	Green
No. of flags	656	756	856	956	556

Q29. The height of 15 girls were measured in cm and the results are as follow:

118, 123, 124, 125, 127, 128, 129, 130, 130, 133, 136, 138, 141, 142, 149,

- a) What is the range of the data?
- b) What is the mean height of the girls?
- c) How many girls have heights more than the mean height?
- d) What is the height of the tallest girl?

Q30. The figure shows two circles with the same centre. The radius of the larger circle is 10 cm and the radius of the smaller circle is 4 cm. Find the shaded area between two circles. (Take  $\pi = 3.14$ )



Q31. In the adjoining figure,  $h \parallel w$ . Find the unknown angles.

