

**SAMPLE PAPER , TERM - 1
SESSION - 2016-17
MATHEMATICS
CLASS-VI**

Time Allowed- 3 hrs

M.M. - 100

General Instructions:-

1. All questions are compulsory.
 2. The question paper consist of 31 questions, divided into four Sections A, B, C and D.
 3. Section A contains 10 MCQ's of 1 mark each.
Section B contains 12 questions of 2 marks each.
Section C contains 12 questions of 3 marks each.
Section D contains 6 questions of 5 marks each.
 4. Write the serial number of the question before attempting it.
 5. There is no overall choice although one internal choice is given in given Section B, C and D.
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SECTION – A

(Each question carries 1 mark)

1. Choose the most suitable answer:

- (i) A prime number is _____.
- | | |
|-----------------------|------------------|
| a) An even number | b) An odd number |
| c) A composite number | d) none of these |
- (ii) Which of the following will represent zero?
- | | |
|--------------------|-----------------|
| a) $\frac{5+5}{2}$ | b) $0 + 2$ |
| c) $2 - 0$ | d) 0×2 |
- (iii) Roman numerals for 498 is
- | | |
|-------------|-------------|
| a) CDCXVIII | b) CDXCVIII |
| c) CCXIV | d) CDXCVII |
- (iv) H.C.F of 17 and 5 is
- | | |
|------|-------|
| a) 5 | b) 85 |
| c) 1 | d) 17 |
- (v) Which of the following is a proper fraction
- | | |
|--------------------|--------------------|
| a) $\frac{28}{13}$ | b) $\frac{11}{23}$ |
| c) $\frac{16}{9}$ | d) $\frac{14}{3}$ |

(vi) Product of $\frac{11}{12} \times \frac{16}{22} \times \frac{9}{6}$ is

a) 1

b) $\frac{33}{16}$

c) $\frac{2}{8}$

d) $\frac{9}{6}$

(vii) In \angle PRQ, the two arms are

a) \vec{PR} , \vec{RQ}

b) \vec{RP} , \vec{RQ}

c) \vec{QR} , \vec{RP}

d) none of these

(viii) There are _____ semi circles in a circle.

a) 1

b) 2

c) 3

d) 4

(ix) A quadrilateral having only one pair of sides parallel is

a) parallelogram

b) trapezium

b) quadrilateral

c) kite

(x) The angle covered by the tip of the hand of a clock, if it moves from 2 to 5 is

a) 30°

b) 90°

c) 45°

d) 40°

SECTION – B

(Each question carries 2 marks)

2. Write the following numbers in ascending order:-

17704, 99999, 100000, 30506

3. The LCM of 60 and 90 is 180. Find their HCF.

OR

Find the HCF of the numbers 128, 60, 40.

4. Write the relation between diameter and radius of a circle. Find the radius of the circle whose diameter is 7cm.

5. Write the largest five digits even number by using even digits only using distinct digits.

6. A boat is sailing in the north west direction. In which direction it will sail after taking $\frac{1}{4}$ of a revolution clockwise.

7. Simplify the following numerical expressions:-

a) $8 \div 4 - 3 + 4 + 6 \times 5$

b) $15 \div 3 \times 2 + 4 \times 20 \div 2$ of 5

8. On a particular day 73,550 spectators were watching a cricket match in a stadium out of these 38,243 were men, 25,780 were women, and the rest were children. How many children were there in the stadium?

9. Ram solved a puzzle in $\frac{2}{5}$ of $\frac{1}{2}$ of $\frac{2}{3}$ of a minute. How many seconds were taken by him to solve ?

10. Find the HCF of 9, 27 and 135 by using prime factorisation method.

11. Nirja has 48 roses. She wants to make different patterns with roses. Find out in how different ways she can arrange them.

12. Simplify $272 \times 42 + 272 \times 50 + 272 \times 8$. Also name the property used on it.

13. Find the product of the largest 4-digit number with the smallest 3-digit number.

SECTION – C

(Each question carries 3 marks)

14. Estimate the following

(i) $2894 + 6873 + 1350$ (to nearest thousands)

(ii) 659×34 (to nearest tens)

(iii) $6258 - 312$ (to nearest hundreds)

15. Write the number of faces and number of vertices of the following .

(i) Triangular Prism

(ii) Cylinder

(iii) Sphere

16. Jasjit was given $\frac{3}{7}$ of a basket of mangoes and Karan was given half of the remaining . What fraction of mangoes was left in the basket?

17. Find the difference between the greatest and the smallest fraction.

$$3\frac{3}{8}, 2\frac{1}{4}, \frac{17}{9}, 5\frac{2}{3}$$

18. (i) Test whether 769483 is divisible by 11 using division test .

(ii) Test whether 1728 is divisible by 72 using division test .

19. On a particular day, Mr. Gupta walked $4\frac{1}{2}$ km, Mr. Sharma $5\frac{1}{3}$ km and Mr khanna 5 km . Find the total distance covered by them .

20. Ram sold books for 15 days by selling 10 books each day. Shyam sold books for 10 days by selling 15 books each day. Who sells more books ?

OR

Multiply the following using suitable rearrangement

$$8 \times 391 \times 125$$

21. Simplify the following :-

(i) $4\frac{1}{2} + 2\frac{4}{5} - 1$

(ii) $\frac{11}{24} + \frac{12}{48} - \frac{2}{12} - \frac{5}{12}$

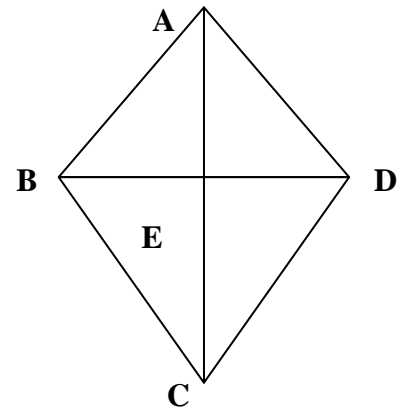
22. Specify the type of the following on the basis of the given figure .

(i) $\angle ADE$

(ii) $\angle DEC$

(iii) $\angle ABC$

(iv) $\angle AEC$



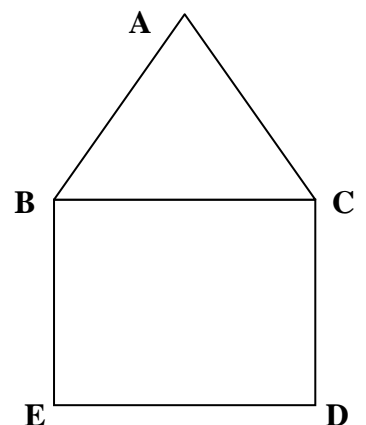
23. Three bells ring at intervals of 15, 20 and 30 minutes. If they all ring at 12 noon together, at what time will they ring together again?

24. Form greatest and smallest 7-digit numbers using the digits . 0,7,1,8,3,5,2 only once and then find their difference

25. For the given figure, answer the following questions:

(a) How many vertices are there? Name them.

(b) How many line segments are there? Name them.



Section – D

(Each question carries 5 marks each)

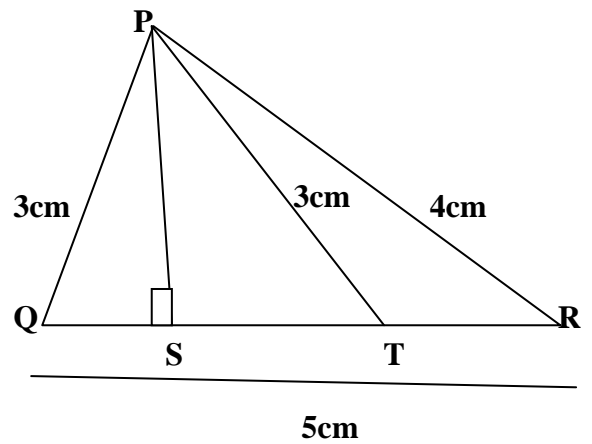
26. Find the largest five digit number using the digits 2 , 3 , 5 , 8 and 0 , which is divisible by the numbers 1 , 2 , 3 , 4 , 5 , 6 .

27. Indian cricket team won 4 more matches than it lost with New Zealand. If it won $\frac{3}{5}$ of its matches out of 20 matches. how many matches did India loose ?

28. There are 36 rows in a cinema hall. Find the minimum number of chairs in each row if the capacity of the cinema hall is 600 people at a time.

29. In the given figure, find and write the name of

- Any two right-angled triangles
- An obtuse-angled triangle
- Two acute-angled triangles
- A scalene triangle
- An isosceles triangle



30. Find the least number which is exactly divisible by 16, 24, 30, 36 and leaves a remainder 5 in each case.

31. If “ O “ is the centre of the circle then identify the following : -

- Diameter
- Three radii
- A chord
- Two points in the interior of a circle
- Two sectors
- A segment

