INDIAN SCHOOL SOHAR
TERM - I EXAMINATION (2017 – 2018)
MATHEMATICS

STD VI   Marks: 80
19/09/2017   Time: 3 Hours

General Instructions:
Check whether the question paper contains 3 printed pages. All questions are compulsory. The question paper consists of 30 questions divided into four sections A, B, C & D. Section A comprises 6 questions of 1 mark each, Section B comprises 6 questions of 2 marks each, Section C comprises 10 questions of 3 marks each & Section D comprises 8 questions of 4 marks each. Do the calculations in the working column. Give necessary formulae and steps wherever required.

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SECTION A   **(1 mark each)**

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1.   The prime number between 25 and 30 is ------------------------ .

2.   1 crore = ------------------ lakhs

3.   The region in the interior of the circle enclosed between a chord and an arc is its -------------

4.   A six sided polygon is called a --------------------- .

5.   The predecessor of the integer 0 is ----------- .

6.   Which direction will you face if you start facing north and make $1\frac{1}{4}$ of a revolution anticlockwise?

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SECTION B   **(2 marks each)**

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7.   Draw any obtuse angle and write down its measure.

8.   Represent the following as integers.

(i)   A height of two thousand metres above the ground.

(ii)   Loss of Rs.3000

9.   Solve 915 – 155 and write the answer in Roman Numerals.

10.   Find the difference between the largest 4-digit number and the smallest 4-digit number

formed by the digits 2, 7, 0, 3.

11. Name the property used:

(i) $145 \times 679 = 679 \times 145$

(ii) $(35 + 321) + 408 = 35 + (321 + 408)$

12. Draw a number line and show which number will we reach if we move 3 numbers to the left of (-1). Write the answer.

<u>**SECTION C**</u>   **(3 marks each)**

13. Draw a circle. Mark and name   (i) a diameter   (ii) a sector   (iii)   a chord

14. Find the value of 105×26 using suitable property. Name the property.

15. Using divisibility test determine whether 2547039 is divisible by 11.

16.   Solve $3845 \times 5 \times 782 + 769 \times 25 \times 218$ using distributive property.

17. Write four negative integers greater than (-5).

18. Name the type of the triangle in two different ways.

   Δ XYZ with $\angle Y = 90\,^{\circ}$ and XY = YZ.
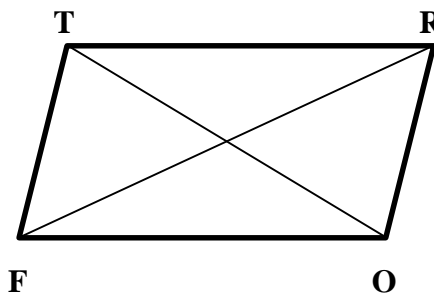
19. Find the LCM of 36, 45 and 60.

20. In the given parallelogram write:

(i) 2 pairs of opposite angles

(ii) 2 pairs of opposite sides

(iii) 2 diagonals

21. An oil merchant has 160 litres of oil of one kind, 200 litres of oil of another kind and 240 litres of oil of the third kind. He wants to sell the oil by filling the 3 kinds of oil in tins of equal capacity. What should be the greatest capacity of such a tin?

22. Estimate the sum 2950 + 19996 + 315 by rounding the numbers to their nearest hundreds.

23. Represent the following numbers on a number line.

    (i) +6   (ii) -4   (iii) -1   (iv) +1

24. Draw any polygon with four sides and mark two points in its interior and one point in its exterior. Write the points.
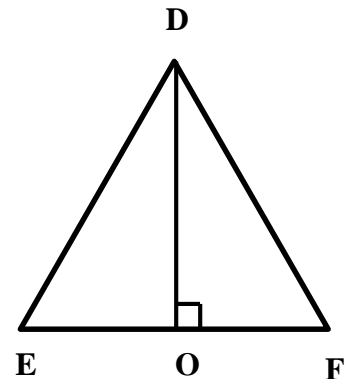
25. Where will the hour hand of the clock stop if it starts at 2 and makes $\frac{3}{4}$ of a revolution?

    Also find the number of right angles turned through by the hour hand while making this revolution. Why clockwise or anticlockwise is not mentioned here?

26. Find the least number which when divided by 12, 16, 24 and 36 leaves a remainder 7 in each case.

27. Observe the given triangle and answer the following:

(i) Name a pair of perpendicular line segments.

(ii) Name all triangles formed.

(iii) Name 4 line segments.

(iv) Name two triangles having line segment OD as a common side.

28. Rita's mother gave her Rs. 750 and her father gave her Rs.1050. She donated Rs.450 to a charity. How much amount is left with her? What values do you learn from her?

29.(i) Find the common factors of 35 and 50. Hence find their HCF.

   (ii) Show the prime factorization of 720 and write the prime factors.

30.(i) Write all integers between -3 and -8 in increasing order.

   (ii) Write "forty million five hundred five thousand six" using commas.

   (iii) Write "fifty six lakh thirty thousand six hundred three" using commas.

*****THE END*****