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| Name |  | Roll Number |  |
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**INDIAN SCHOOL MUSCAT  
MIDDLE SECTION  
ANNUAL EXAMINATION 2018-19**



**SUBJECT - MATHEMATICS**

**CLASS: VIII**

**14.03.2019**

**Code: MXM04**

**Time Allotted: 2 ½ Hrs.**

**Max .Marks: 80**

**General Instructions.**

1. The question paper comprises of four Sections, A, B, C and D.
2. You have to attempt all the sections.
3. All questions are compulsory.
4. All answers should be written in the answer sheet provided.

**SECTION A**

| Qns |   | Marks |
|-----|---|-------|
| 1.  | Write the standard form of 0. 0000569.                                    | 1     |
| 2.  | Find the value of $\left(\frac{3}{5}\right)^{-2}$ .                       | 1     |
| 3.  | Find the area of a rhombus whose diagonals are 18cm and 9 cm.             | 1     |
| 4.  | Find the LSA of a cube with edge 6cm.                                     | 1     |
| 5.  | Find the probability of getting an even number when a die is rolled once. | 1     |
| 6.  | Write the coordinates of the origin.                                      | 1     |

**SECTION B**

|     |   |   |
|-----|---|---|
| 7.  | Find the side of a square whose area is 676 m <sup>2</sup> .  | 2 |
| 8.  | Factorise : 7ab + 9cd + 7ad + 9bc   | 2 |
| 9.  | Simplify $\left[3^3 \times \left(\frac{1}{2}\right)^{-3} \times \frac{1}{4}\right]$                   | 2 |
| 10. | What is the cost price of an item which is sold at a loss of 25% for Rs 1500?                         | 2 |
| 11. | Solve: 5(2y + 1) = 3 ( y - 3)   | 2 |
| 12. | Write the quadrants in which the following points lie?<br>(1, 2) , (5, - 2) , (- 4, -1) and (- 6, 1). | 2 |

### SECTION C

13. Find the least number which must be subtracted from 2361 to make it a perfect square. 3
14. Construct a rectangle ABCD such that AB = 6.4 cm and BC = 5.2 cm 3
15. Simplify  $(2x + y)(5x - 2y)$  and find the value when  $x = 1$  and  $y = 2$  3
16. Factorise :  $x^2 + 10x + 24$  3
17. Simplify :  $\frac{2^{-4} \times 25}{5^3 \times 10^{-4}}$  3
18. A shopkeeper charged Rs 1232 for a fan which includes 12% VAT on it. Find the price of the fan before VAT and also find the VAT amount. 3
19. Solve :  $\frac{3x+2}{5x+4} = \frac{3}{4}$  3
20. A class room 11m long, 8m wide and 5m high. Find the sum of the areas of its floor and the four walls. 3
21. Construct a histogram for the following data. 3

| Class interval | 40-50 | 50-60 | 60-70 | 70- 80 | 80-90 |
|----------------|-------|-------|-------|--------|-------|
| Frequency      | 12    | 5     | 18    | 14     | 10    |

22. Draw a linear graph for the following data. 3

| Sum ( in rupees)       | 100 | 200 | 300 | 500 |
|------------------------|-----|-----|-----|-----|
| Annual S I (in rupees) | 10  | 20  | 30  | 50  |

### SECTION D

23. Find the least number to be multiplied with 704 to get a perfect square. Also find the square root of the number obtained. 4
24. Construct a parallelogram ABCD in which AB = 5.2cm, BC = 6.5 cm and BD = 7.8cm 4
25. Simplify :  $(4a - 3b)^2 + (4a + 3b)^2$  4
26. Divide :  $25pq(9b^2 - 16) \div 5p(3b + 4)$  4

27. Find the compound interest on Rs 12000 for 2 years compounded annually, the rate of interest being 5% per annum. 4
28. Kiran is 24 years older than Rakesh. After 5 years, Kiran's age will be three times the age of Rakesh. Find their present ages. 4
29. The radius of a right circular cylinder is 7cm and its height is 20cm. Find its curved surface area and volume. 4
30. The following table gives the number of different fruits kept in a carton. Represent the above data using a pie chart. 4

| Types of fruits  | Mangoes | Apples | Oranges | Pears | Grapes |
|------------------|---------|--------|---------|-------|--------|
| Number of fruits | 50      | 60     | 40      | 10    | 20     |

End of the question paper.