

**MBS INTERNATIONAL SCHOOL
SECTOR-11, DWARKA
SESSION- 2019-20
PRACTICE PAPER
MATHEMATICS
CLASS - VIII**

Time allowed: 1.5Hours

Maximum Marks: 40

General Instructions:

- All the questions are compulsory.
- The question paper consists of 20 questions divided into four sections A, B, C & D. Section A comprises of 10 MCQ questions of 1 mark each. Section B comprises of 3 questions of 2 marks each. Section C comprises of 4 questions of 3 marks each and Section D comprises of 3 questions of 4 marks each.
- Use of calculator is not allowed.

SECTION-A

- | | | |
|---|--|---|
| 1 | Which of these numbers is divisible by 6?
(i) 23832 (ii) 24836 (iii) 76348 (iv) 19624 | 1 |
| 2 | The product of $(2x+5)$ and $(2x-7)$ is | 1 |
| 3 | If 2 coins are tossed two times, the number of possible outcomes is
(i) 12 (ii) 6 (iii) 10 (iv) 4 | 1 |
| 4 | If 5 pipes can fill a tank in 2 hours 40 minutes, how much longer will it take if there are only 4 pipes of the same type?
(i) 200 minutes (ii) 450 minutes (iii) 250 minutes (iv) 400 minutes | 1 |
| 5 | If 18 sheets of paper weigh 30 grams, then the weight of 24 sheets of paper is | 1 |
| 6 | A figure in which the longer diagonal bisects the shorter one is
(i) a parallelogram (ii) a rhombus (iii) a square (iv) a kite | 1 |
| 7 | Which of the following is a 3-D figure?
(i) a line (ii) quadrilateral (iii) rhombus (iv) cone | 1 |

- 8 The side of an equilateral triangle is 6 cm. Its area will be 1
- 9 The area of trapezium is 560 sq. cm and the lengths of the parallel sides are 15 cm and 13 cm. the height of the trapezium is 1
- (i) 30 cm (ii) 40 cm (iii) 50 cm (iv) 45 cm
- 10 The non-square numbers between 22^2 & 23^2 . 1

SECTION-B

- 11 The perimeter of the floor of a hall is 300 m and its height is 6 cm. Find the cost of the painting the four walls at the rate of Rs 35 per square meter. 2
- 12 If a car covers a distance of 160 km in 4 hours, then how long will it take to cover 175 km at the same speed? 2
- 13 Multiply: $(a + b) (a^2 + bc + b^2)$ 2

SECTION-C

- 14 Construct a quadrilateral PACK in which PA = 4 cm. AC = 3.6 cm, CK = 4.7 cm, PK = 5.2 cm and $\angle A = 80^\circ$. 3
- 15 A hallow cylindrical pipe is made of copper. The volume of the metal used in the pipe is 2640 cubic cm. Its external radius is 7 cm and the length is 21 cm. Find the thickness of pipe. 3
- 16 Solve: $\frac{0.4x-0.5}{0.3x+0.2} = \frac{2}{5}$ 3
- 17 360 people were asked to tell about the game they like to play. Draw a pie chart using the following data. 3

Game	A	B	C	D
Number of people	64	72	84	140

SECTION-D

- 18 The length of a rectangular hall exceeds its breadth by 7 m. If the breadth is decreased by 1 m and the length increased by 2 m, the area remains the same. Find the length and breadth of the hall. 4
- 19 Divide: $(3x^3 + 7x^2 + 2x - 2) \div (x + 1)$ 4
- 20 What number should be added to 54682 to make it a perfect square. Also find the square root of resulting number. 4

