



JSS's

ShriManjunatheshwara Central School

S.NO 175, Near GangubaiHangalGurukul, Shivalli Road, Unkal

Hubballi.

Class: VII

MID TERM -EXAM (2020 - 21)

Sub: Mathematics

Marks: 80

SECTION A

Q.1 Select the most appropriate answer from the given options.

10X1=10

1. $(-8) \times 0 =$ _____

- (a) 0 (b) -8 (c) 8 (d) $\frac{1}{8}$

2. The simplest form of $\frac{-44}{84}$ is _____

- (a) $\frac{1}{8}$ (b) $\frac{1}{8}$ (c) $\frac{1}{8}$ (d) $\frac{1}{8}$

3. $3 \times (-4) = (-4) \times 3$. This is an example for _____

- (a) Associative property of addition
(b) Associative property of multiplication
(c) Commutative property of addition
(d) Commutative property of multiplication

4. A regular hexagon has _____ lines of symmetry.

- (a) 3 (b) 6 (c) 8 (d) 4

5. $\frac{18}{30}$ is the equivalent fraction of _____

- (a) $\frac{9}{10}$ (b) $\frac{2}{5}$ (c) $\frac{3}{5}$ (d) $\frac{2}{15}$

6. The value of $7^2 \times 2^3$ is _____

- (a) 498 (b) 49 (c) 57 (d) 392

7. A square based pyramid has _____ vertices.

- (a) 4 (b) 5 (c) 6 (d) 7

8. $(6^2)^4$ is equal to _____

- (a) 6^2 (b) 6^4 (c) 6^6 (d) 6^8

9. Insert the correct sign in the blank : 0.5 _____ 0.05

- (a) = (b) > (c) < (d) None of these

10. $8 \times 10^4 + 6 \times 10^3 + 0 \times 10^2 + 4 \times 10^1 + 5 \times 10^0$ in the standard form is written as _____

- (a) 86045 (b) 80645 (c) 8645 (d) 860450

Q.2 Fill in the blanks.

5X1=5

11. 5 cms = _____ metre

12. The reciprocal of 9 is _____

13. The mode of the set of numbers : 2, 6, 2, 5, 3, 3, 4, 2, 5, 2, 6, 8 is _____

14. A cuboid has _____ faces and _____ vertices.

15. $a^m \times a^n =$ _____

Q3. Solve the following

5X1=5

16. Solve : $8 \frac{1}{2} - 3 \frac{5}{8}$

17. Find the product using suitable property : $15 \times (-25) \times (-4) \times (-10)$

18. What is the rotational symmetry of an equilateral triangle?

19. A bulb glows right above a brick. What is the shape of the shadow formed?

20. Find the value of $\frac{2}{3} \times \frac{-7}{8}$

SECTION-B

Q4. Solve the following

6X2=12

21. Find two rational numbers between $\frac{-4}{5}$ and $\frac{-2}{3}$

22. A die is thrown. What is the probability that the face shown up is an even number ?

23. Find the value of $\frac{7.75}{0.25}$

24. Construct a $\triangle ABC$, given $AB = 3$ cm, $AC = 5$ cm and measurement of $\angle C = 30^\circ$

25. Divide $5 \frac{1}{6} \div \frac{9}{2}$

26. Simplify and express in exponential form : $\frac{2 \times 3^4 \times 2^5}{9 \times 4^2}$

SECTION-C

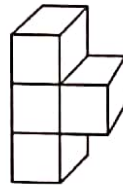
Q5. Solve the following

8X3=24

27. Draw the rough sketch of a semicircle. Mark the centre of rotation. Also write the number of rotations and angle of rotation.

28. Draw a number line and represent $\frac{7}{8}$ on it.

29. Arrange the following in ascending and descending order : $\frac{1}{3}$, $\frac{4}{9}$, $\frac{5}{9}$
30. Draw a line XY. Take a point Z outside it. Through Z draw a line parallel to XY using scale and compass only.
31. The scores in Mathematics test of 15 students are as follows :
19 , 25 , 23 , 20 , 9 , 20 , 15 , 10 , 5 , 16 , 25 , 20 , 24 , 12 , 20. Find the mean , median , mode.
32. In a class test, 10 questions were given. 5 marks were given for every correct answer and (-2) for every incorrect answer. Ramesh answers 7 correct answers and 3 incorrect. What is his score ?
33. In a class of 35 students, $\frac{1}{5}$ of the students like English, $\frac{2}{5}$ of the students like Maths and remaining like Science . How many students like English and Maths ? What fraction of students like Science ?
34. For the following figure , draw the top , front and side view.



SECTION D

Q6. Solve the following

6 x 4 = 24

35. Construct a triangle ABC ,given, $\angle A = 60^\circ$, $\angle B = 30^\circ$ and $AB = 6$ cm. What kind of triangle is it?
36. Draw a cylinder. Draw its net diagram. How many faces, edges and vertices does a cylinder have?
37. Shushant reads $\frac{1}{4}$ part of a book in 1 hour. How much part of the book will he read in $3\frac{1}{4}$ hours?
38. Express as product of prime factors in the exponential form : $729 \times 64 \times 625$
39. Find the value of : a) $(\frac{-6}{13}) - (\frac{-7}{15})$ b) $\frac{3}{11} + \frac{5}{9}$
40. The performance of a student in the 1st and the 2nd term is given. Draw a double bar graph by taking the scale as 1 unit = 10 marks. Answer the following questions:

Subject	English	Hindi	Maths	Science	S.Science
1 st term	70	75	85	80	90
2 nd term	70	85	95	85	75

- a) In which subject the performance went down?
- b) In which subject the performance remained the same ?