Model Paper Term-I
SET-B
CLASS – VII
MATHEMATICS
Time: 2hours
MM: 50

ZERO PERIOD
We Believe in Learning

<hr>

Section – A
Each question carries 1 mark

Choose the correct option

1. The multiplicative identity for integers is
   (a) 0 　　　　　 (b) 1 　　　　　 (c) -1 　　　　　 (d) *None*

2. Which of the following is an equivalent fraction of $\frac{2}{3}$?
   (a) $\frac{4}{9}$ 　　　 (b) $\frac{6}{13}$ 　　　 (c) $\frac{8}{11}$ 　　　 (d) $\frac{10}{15}$

3. The solution of the equation $x + 3 = 0$ is
   (a) 3 　　　　　 (b) -3 　　　　　 (c) 0 　　　　　 (d) 1

4. Mean of the first six prime number is
   (a) 7.83 　　　　 (b) 5.83 　　　　 (c) 6.83 　　　　 (d) 4.83

5. The mode of the distribution 3,5,7,4,2,1,4,3,4 is
   (a) 7 　　　　　 (b) 4 　　　　　 (c) 3 　　　　　 (d) 1

6. If $\frac{4}{3} = \frac{x}{12}$ then $\frac{2}{9} x =$?
   (a) 3 　　　　　 (b) 16 　　　　　 (c) 19 　　　　　 (d)12

7. $(-1) \times (-1) \times (-1) \dots (2m + 1) times$ where m is a natural number , is equal to
   (a) 1 　　　　　 (b) -1 　　　　　 (c) 1 or -1 　　　　 (d) None

8. Which is the predecessor of 208090 ?
   (a) 208089 　　　　 (b) 208091 　　　　 (c) 208090 　　　　 (d) 108090

9. Which of the following is the factor of every number?
   (a) 0 　　　　　 (b) 1 　　　　　 (c) Number itself 　　　 (d) Any number

10. How many prime numbers are there between 1 and 20 ?
    (a) 7 　　　　　 (b) 8 　　　　　 (c) 9 　　　　　 (d) 10

11. How many factors does 36 have?
    (a) 5 　　　　　 (b) 6 　　　　　 (c) 7 　　　　　 (d) 9

12. Every _____of a number is greater than or equal to that number.
    (a) factor 　　　　 (b) inverse 　　　　 (c) multiple 　　　　 (d) identity

13. A fraction with numerator 1 is called_____
    (a) like fraction 　　 (b) proper fraction 　　 (c) unit fraction 　　 (d) mixed fraction

14. What fraction of an hour is 40 minutes?
    (a) 1 　　　　　 (b) 1/3 　　　　　 (c) 2/3 　　　　　 (d) 4/3

15. The simplest form of $\frac{16}{72}$ is
    (a) $\frac{2}{9}$ 　　　 (b) $\frac{1}{4}$ 　　　 (c) $\frac{1}{2}$ 　　　 (d) $\frac{2}{7}$

16. Which of the following is an equivalent fraction of $\frac{13}{25}$
    (a) $\frac{65}{50}$ 　　　 (b) $\frac{26}{75}$ 　　　 (c) $\frac{156}{300}$ 　　　 (d) $\frac{103}{205}$

17. Which of the following is decimal form of two ones and five tenths?
    (a) 0.2 　　　　　 (b) 0.25 　　　　　 (c) 2.5 　　　　　 (d) 25.0

18. Which of the following is decimal form of $\frac{12}{5}$
    (a) 0.24 　　　　　 (b) 2.4 　　　　　 (c) 1.4 　　　　　 (d) 2.04

<hr>

19. The value of $9.75 - 6.25$

    (a) 0.5   (b) 3.0   (c) 2.5   (d) 3.5

20. Which of the following is equal to $15cm$?

    (a) $1.5m$ (b) $0.015m$ (c) $0.15m$ (d) $150m$

Section – B
Each question carries 2 marks

21. Solve using property: $4 \times 236 \times 25$

22. Find the prime factorisation of 1225

23. Using divisibility test ,check if 639210 is divisible by 6

Section – C
Each question carries 3 marks

24. Find the HCF of $91, 112$ and 49

25. Locate the following fractions on the number line: $\dfrac{2}{5}, \ \dfrac{4}{5}, \dfrac{6}{5}, \dfrac{7}{5}$

26. (a) Subtract the sum of $\dfrac{4}{9}$ and $\dfrac{2}{3}$ from $4\dfrac{5}{9}$

    (b) Write a fraction equivalent to $\dfrac{2}{11}$ with numerator 36

27. Ram travelled 5km52m by bus, 2km265m by car and the rest $1km30m$ he walked. How much distance did he travelled in all?

Section – D
Each question carries 4 marks

28. (a) Simplify: $8\dfrac{1}{4} - 2\dfrac{5}{6}$

    (b) Compare: $\dfrac{4}{5}$ and $\dfrac{5}{6}$

29. (a) Write 2.34 as fraction in lowest term.

    (b) Express 56kg 5g as kg using decimals.

    (c) Write 10.507 in the expanded form

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