Class VI
Mid Term Examination 2022-2023
Subject: Mathematics
SET: A1

Time allowed: 3 hours **M.M.: 80**

General Instructions:

- **Q1- Q 15 carry 1 marks each**
- **Q16 – Q22 carry 2 marks each**
- **Q23 - Q29 carry 3 marks each**
- **Q30 - Q35 carry 5 marks each**

SECTION-A

Q1. Express 198 as roman numerals.

a) CCXVIII b) CXCVIII c) CXCVII d) CXC1VII

Q2. How many whole numbers are there between 32 and 53?

a) 12 b) 20 c)21 d) 30

Q3. What is the successor and predecessor of 208090?

a) S =208091,P = 208089 b) S =208092,P = 208088

c) S =201891,P = 208089 d) S =208091,P = 208189

Q4. Write all factors of 36 .

a) 1,2,3,4,6,9,12,18,36 b) only 1 c) 1,2,3,4,6,9,12,18 d) countless

Q5. Which of the following numbers are coprime?

a) 18 and 36 b)15 and 37 c)30 and 415 d)216 and 218

Q6. How many lines can pass through 2 given points?

a) 2 b) only 1 c)3 d) countless

Q7. How many vertices are there in a pentagon?

a) 3 b) 5 c)6 d) 8

Q8. Write the opposite of withdrawal of seven hundred rupees.

b) deposit of seven hundred rupees
c) deposit of eight hundred rupees
d) deposit of seventy hundred rupees
e) deposit of seven rupees

Q9. What fraction of an hour is 40 minutes?

(a) $\frac{3}{4}$ (b) $\frac{2}{3}$ (c) $\frac{36}{4}$ (d) $1\frac{3}{4}$

Q10. Write equivalent fraction of $\frac{36}{48}$ with denominator 4.

(a) $\frac{3}{4}$ (b) $\frac{16}{8}$ (c) $\frac{36}{4}$ (d) $1\frac{3}{4}$

Q11. The natural number that has no predecessor is
(a) 1 (b) 10 (c) 100 (d) 1000.

Q12. Whole numbers are closed under addition and multiplication. This property is known as
(a) closure property
(b) commutativity of addition and multiplication
(c) associativity of addition and multiplication
(d) distributivity of multiplication over addition.

Q13. The least prime number between 1 and 10 is
(a) 2 (b) 5 (c) 3 (d) 7.

Q14. The greatest common factor of 8 and 20 is
(a) 2 (b) 1 (c) 4 (d) 8.

Q15. Which of the following statements, is true?
(a) Greatest negative integer is – 1.
(b) – 10 is to the right of – 8 on a number line.
(c) – 50 is to the left of – 100 on a number line.
(d) – 11 is larger than – 10.

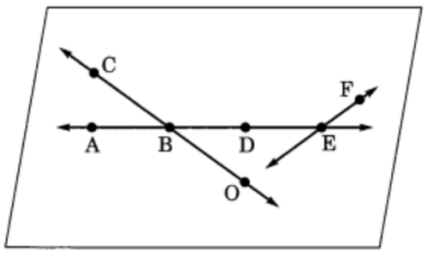
SECTION B

Q16. Insert commas suitably and write 7452283 according to international system of numeration.

Q17. Find product using suitable property 28 × 103

Q18. Express 44 as sum of 2 odd primes.

Q19. Using the figure to name



a) Line containing point E.
b) Two pairs of intersecting lines.

Q20. Write 4 negative integers greater than – 10.

Q21. Write all natural numbers from 102 to 113. What fraction of them are prime numbers.

Q22. Mr. Raj got a job at the age of 24 years and he get retired from the job at the age of 60 years. What fraction of his age till retirement was he in job.

SECTION C

Q23. Express the product using general rule

578×161.

Q24. Find the value using property

$812 \times 169 - 812 \times 69$

Q25. Write smallest 5-digit number and express it in the form of its prime factors .

Q26. Three boys step off together from the same point. Their steps measure 63 cm , 70 cm and 77 cm respectively .What is the minimum distance each should cover so that all can cover the distance in complete steps .

Q27. Draw each of the following

a. A closed curve that is not a polygon.

b. An open curve made up of entirely line segments.

c. A 4- sided polygon.

Q28. Using number line, write the integer which is 6 less than 2 .

Q29. Arrange the following in ascending order

$\frac{1}{8}$, $\frac{2}{8}$, $\frac{8}{16}$

SECTION D

Q30. Find the sum and difference of the greatest and least 5- digit number that can be written using the digits 6, 2, 7 , 4, 3 each only once .

Q31. Determine the greatest 3- digit number exactly divisible by 8,10 and 12 .

Q32. Draw a quadrilateral KLMN and name the following

a) A pair of opposite sides.
b) A pair of opposite angles
c) A pair of adjacent sides.
d) A pair of adjacent angles.

Q33. Draw a circle of radius 5 cm and mark its centre , diameter , sector and segment .

Q34. Navya ‘s house is $\frac{9}{10}$ km from her school. She walked some distance and then took a bus for $\frac{1}{2}$ km to reach the school . How far did she walk?

Q 35. Climate Diversity of India

The world is divided into a number of climatic zones. The climate of India is described as

'Monsoon' type. There is a lot of variation in temperature across India. In Summer, the

mercury occasionally touches 50° C in some parts of the Rajasthan desert, whereas it may be around 20° C in Pahalgam in Jammu and Kashmir. On a winter night, temperature at Drass in Jammu and Kashmir may be as low as -45 ° C on the other hand, Churu in Rajasthan may have a temperature of 22° C

The average monthly temperatures of Drass and Churu were recorded. The table given below shows this information from January to June.

	January	February	March	April	May	June
Average Temperature in Drass (°C)	–32	–20	–6	2	14	21
Average Temperature in Churu (°C)	22	25	32	35	40	44

Based on the above information, Answer the following questions ,

1. What is the increase in temperature in Drass from March to April?

(a) 2 (b) 5 (c) 3 (d) 8

2. What is the difference in temperature between Churu and Drass in January ?

(a) 25° C (b) 54 ° C (c) 43° C (d) 18° C

3. In which month is the average temperature greatest in Drass ?

(a) January (b) April (c) May (d) June

4. In which month is the average temperature lowest in Churu ?

(a) January (b) April (c) May (d) June

5. On Simplifying , (– 32) + (– 20) + 100 , we get

(a) 21 (b) 57 (c) 46 (d) 18