Class VI
Mid Term Examination 2022 -2023
Subject: Mathematics
MARKING KEY
SET: A1 and A2

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**
- **No. of pages - 6**

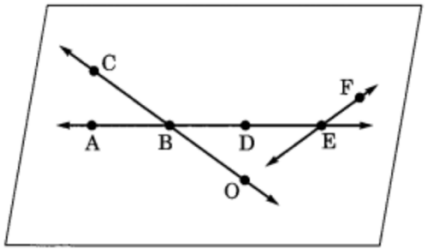
SECTION A MARKS

Set A1	Set A2	Question	Marks
Q15.	Q1.	Express 198 as roman numerals. Ans CXCVIII	1
Q 14.	Q2.	How many whole numbers are there between 32 and 53 ? a) 12 b) 20 c)21 d) 30	
		Ans b	1
Q13.	Q3.	What is the successor and predecessor of 208090 ?	
		Ans - S = 208091 , P = 208089	1
Q12.	Q4.	Write all factors of 36 .	
		Ans 1,2,3,4,6,9,12,18,and 36.	1
Q11.	Q5.	Which of the following numbers are coprime a) 18 and 36 b)15 and 37 c)30 and 415 d)216 and 218	
		Ans b	1
Q10.	Q6.	How many lines can pass through 2 given points ? a) 2 b) only 1 c)3 d) countless	
		Ans b	1
Q9.	Q7.	How many points are there in a pentagon ? a) 3 b) 5 c)6 d) 8	

		Ans b	1
Q8.	Q8.	Write the opposite of withdrawal of seven hundred rupees .	
		Ans Deposits of seven hundred rupees.	1
Q7.	Q9.	What fraction of an hour is 40 minutes?	
		Ans 2/ 3	1
Q6.	Q 10.	Write equivalent fraction of $\frac{36}{48}$ with denominator 4.	
		Ans 3/4	1
Q5.	Q 11	The natural number that has no predecessor is (a) 1 C (b) 10 (c) 100 (d)1000. Ans a	1
Q4.	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 Ans a	1
Q3.	Q13.	The least prime number between 1 and 10 is (a) 2 (b) 5 (c) 3 (d) 7. Ans a	1
Q2.	Q14.	The greatest common factor of 8 and 20 is (a) 2 (b) 1 (c) 4 (d) 8 Ans c	1
Q1.	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. Ans a	1

SECTION B

Q22.	Q16.	Insert commas suitably and write 7452283 according to international system of numeration.	
		7,452,283	
		Seven million four hundred fifty two thousand two hundred eighty three	Commas and correct ans 1each
Q21.	Q17.	Find product using suitable property 28 × 103	
		Ans 2884	Working and correct ans 1each
Q20.	Q18.	Express 44 as sum of 2 odd primes .	

		Ans 3+ 41	Working and correct ans 1each
Q19.	Q19.	. Using the figure to name  a) Line containing point E. b) Two pairs of intersecting lines .	
		a)Ans . Line containing point E. = AE b)Two pairs of intersecting lines . =AE and CO	1/ 2 ,1/2 ,1
Q18.	Q20.	Write 4 negative integers greater than – 10 . .	
		Ans – 9 , – 8 , – ,6– 7	correct ans ½ each
Q17.	Q21.	Write all natural numbers from 102 to 113 .What fraction of them are prime numbers .	
		Ans 4/12	reason and correct ans 1each
Q16.	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 .	
		Ans Working year = 60 – 24 = 36 year Required fraction = 36 / 60 = 3/5	Working and correct ans 1each
		3/ 5	

SECTION C

Q29.	Q23.	Express the product using general rule 578 × 161.	
		578 × 161= 120000	
			working =2, correct ans - 1
Q28.	Q24.	Find the value using property	
		812 × 169 – 812 × 69	
		812 × 169 – 812 × 69	
		812 × (169 – 69)	
		= 81200	1 mark for each step

Q27.	Q25.	Write smallest 5-digit number and express it in the form of its prime factors	
		Ans smallest 5-digit number = 10000 $= 2^4 \times 5^4$	Working and correct Ans 1.5 each
Q 26 / Q 26		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 .	
		Ans finding LCM of 63 cm , 70 cm and 77 cm = 6930 cm	Working and correct Ans 1each
Q25.	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 .	
		Ans Do as directed	3 marks
Q24.	Q28.	Using number line , write the integer which is 6 less than 2 .	
		Ans Draw number line	
		Ans = - 4	
			Working 2 marks and correct Ans 1mark
Q23.	Q29.	Arrange the following in ascending order $\frac{1}{8}, \frac{2}{8}, \frac{8}{16}$	
		Ans $\frac{1}{8}, \frac{2}{8}, \frac{8}{16}$	Working 2 marks and correct Ans 1mark

SECTION D

Q35.	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 .
		Ans G = 76432 S = 23467 Sum = 99899 Difference = 52965
Q34.	Q31.	Determine the greatest 3- digit number exactly divisible by 8,10 and 12 .

		Ans . LCM = 120 Greatest 3-digit = 999 Q= 8, R = 39 Required no. = 960
Q33.	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 .
		Ans) (a) KL ,MN (b) K , M (c) KL,LM (d) K,L
Q32.		Draw a circle of radius 5 cm and mark its centre , diameter , sector and segment .
		Ans Do as directed
Q31.	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
		Ans 2/5
Q30.	Q 35	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

Ans d

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

Ans b

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

		(a) January (b) April (c) May (d) June Ans d 4. In which month is the average temperature lowest in Churu ? (a) January (b) April (c) May (d) June Ans a 5. On Simplifying , (− 32) + (− 20) + 100 , we get (a) 21 (b) 57 (c) 46 (d) 18 Ans c