MID-TERM EXAMINATION

Question Paper 2024-25

NCERT BASED SYLLABUS

FOR CBSE AND STATE BOARD
FOLLOWING NCERT

MID-TERM EXAMINATION

SESSION: 2024-2025

SUBJECT: MATHEMATICS

CLASS – VI

Time Allowed: 3 Hrs 15 Mins **Max. Marks: 80**

General Instructions:

(i) First 15 minutes are allowed only for reading the question paper. Students must NOT start writing during this time.

(ii) This question paper consists of 2 printed pages.

Group-A (Multiple Choice Questions) (1 X 20 = 20)

(1) The difference between the place value and face value of 2 in 658742 is

(a) 0 (b) 2 (c) 7 (d) 9

(2) One Million is equal to (a) 1 lakh (b) 10 lakh (c) 100 lakh (d) 1 crore

(3) Which among them are not twin-primes? (a) (3,5) (b) (5,7) (c) (11,13) (d) (17,23)

(4) The number of primes between 90 and 100 is (a) 0 (b) 1 (c) 2 (d) 3.

(5) The product of the successor and the predecessor of 99 is (a) 9800 (b) 9900 (c) 109 (d) 97

(6) The successor of the smallest prime number is (a) 1 (b) 2 (c) 3 (d) 4.

(7) The smallest number which is neither prime nor composite is (a) 0 (b) 1 (c) 2 (d) 3.

(8) The predecessor of 1 in whole number is (a) -1 (b) 0 (c) 1 (d) 2.

(9) $(-2) \times (-3) \times 6 \times (-1) =$ (a) 36 (b) -36 (c) 6 (d) -6.

(10) $9 + |-4| =$ (a) 5 (b) -5 (c) 13 (d) -13.

(11) (-39) + 5 is equal to (a) 24 (b) 34 (c) -34 (d) -24.

(12) 6 more than (-7) is (a) 1 (b) -1 (c) 13 (d) -13.

(13) Which one is a proper fraction? (a) $\frac{4}{3}$ (b) $\frac{3}{4}$ (c) $\frac{13}{4}$ (d) $\frac{21}{5}$.

(14) Which one is an improper fraction? (a) $\frac{1}{2}$ (b) $\frac{3}{7}$ (c) $\frac{7}{3}$ (d) $\frac{3}{15}$.

(15) $\frac{5}{12}$ is equivalent to $\frac{x}{3}$, then x = (a) $\frac{5}{4}$ (b) $\frac{4}{5}$ (c) $\frac{5}{3}$ (d) $\frac{3}{5}$.

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(16) A fraction equivalent to $\frac{45}{105}$ is (a) $\frac{6}{14}$ (b) $\frac{4}{7}$ (c) $\frac{5}{7}$ (d) $\frac{7}{5}$

(17) $\frac{7}{100}$ is equal to (a) 7.1 (b) 7.01 (c) 0.7 (d) 0.07

(18) $2 + \frac{3}{10} + \frac{5}{100}$ is equal to (a) 2.305 (b) 2.3 (c) 2.35 (d) 0.235

(19) Which of the following are like decimals?

(a) 5.5, 5.05, 5.50 (b) 5.5, 0.55, 5.555 (c) 5.5, 6.6, 7.7 (d) none of these.

(20) 6 out of 10 is (a) 0.6 (b) 0.06 (c) 6.0 (d) 6.6

Group-B (Very Short Answer Questions) (2 X 6 = 12)

(21) Write the greatest and the smallest five digits numbers using the digits 5, 0, 2, 7, 1.

(22) Find the HCF by using prime factorization method of the numbers 5, 50, 100.

OR

Find the HCF by using long division method of the numbers 15, 25, 145.

(23) Write the predecessor and the successor of 100020197.

(24) Using number line subtract 8 from 16. (Use ruler and pencil)

(25) What fraction is 300 m of 1 km?

(26) Represent 1.7 on number line. (Use ruler and pencil)

Group-C (Short Answer Questions) (3 X 8 = 24)

(27) Add: 0.85 + 9.475 + 37.28

(28) Ravi purchased 50 kg rice, 2.75 kg sugar and 3.2 kg dal. What is the total weight of items bought by Ravi?

(29) Add: $7\frac{3}{7} + 8\frac{4}{14} + 9\frac{15}{21}$

(30) Sarin walked $2\frac{2}{3}$ km, Barin walked $2\frac{4}{5}$ km and Marin walked $2\frac{6}{7}$ km. Who walked more?

(31) Put > or < sign for the following:

(a) 27 □ (-11) (b) 0 □15 (c) (-7) □ 0

OR

Indicate as integers: (a) 40°C above 0°C (b) Profit of Rs.50 (c) Withdrawal of Rs.100

(32) Write True or False.

(a) All whole numbers are natural numbers. (b) All natural numbers are whole numbers.

(c) 1 is the smallest whole number.

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(33) The dimensions of a room are 50 cm, 75 cm and 130 cm. Find the largest measuring tape which can measure these three dimensions exactly.

(34) Simplify: 360 ÷ (50 - 21 - 11) + 15×7 - 5×18

Group-D (Long Answer Questions) (4 X 3 = 12)

(35) Neela goes to market and purchases 33 packets of biscuits. Each packet contains 25 biscuits. Neela wants to distribute the total number of biscuits to 55 street dogs. How many biscuits each dog will get?

(36) Pooja went to the market with Rs. 8500. She bought a pair of shoes for Rs. 1900, a suit for Rs. 2450 and a tea-set for Rs. 770. What is the total amount Pooja spent? How much money was left with her?

(37) A milkman has 50 liters of milk. He gives 20.5 liters to Ram, 12.75 liters to Shyam and gives 5 liters to Madhu. Find the followings:

(a) How much milk is distributed by the Milkman?

(b) How much milk is still left with him?

OR

Akash bought vegetables weighing 10 kg. Out of this 3kg 500g were onions, 2kg 75g were tomatoes, 1 kg 5g were carrot and the rest were potatoes. What was the weight of potatoes?

Group-E (Case Study) (4 X 3 = 12)

(38) In Esplanade metro station, a train enters platform 1 at the interval of every 120 seconds, another train enters platform 2 at the interval of every 160 seconds. At 10:00 A.M. both the trains enter the respective platforms.

Based on the above information, answer the following questions:

(a) Find the prime factors of 120.
(b) Find the HCF of 120 and 160.
(c) Find the LCM of 120 and 160.
(d) At what time (next) will both the trains enter the platforms?

(39) Walking is a good habit for health. Nitin jogged $2\frac{1}{5}$ km from Mall A to Mall B. He jogged another $\frac{34}{9}$ km from Mall B to Mall C.

Based on the above information, answer the following questions:

(a) Convert $2\frac{1}{5}$ km into improper fraction.
(b) Express $\frac{34}{9}$ km into mixed fraction.
(c) What was the total distance that Nitin jogged?
(d) Find whether $2\frac{1}{6}$ and $\frac{34}{9}$ are equivalent or not.

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(40) Following are the temperatures of 5 cities noted on one particular morning:

Place	Kolkata	Mumbai	Ladakh	Delhi	Sikkim
Temperature	20°C	32°C	-10°C	15°C	-3°C

Based on the above information, answer the following questions:

(a) Which is the coldest city among these 5 cities?
(b) Which is the hottest city among these 5 cities?
(c) Which cities have temperature less than 0°C?
(d) Which cities have temperature greater than 0°C?

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