

CADET COLLEGE PETARO

SYLLABUS OUTLINE MATHEMATICS - VIII

1. Sets.
2. Rational Numbers.
3. Decimals
4. Exponents
5. Square root
6. Variations
7. Financial Arithmetic
8. Algebraic Expressions
9. Linear equations
10. Fundamental Geometry
11. Practical Geometry.
12. Circumference, Area & Volume
13. Information Handling

CADET COLLEGE PETARO

CLASS-VIII SAMPLE OF OMR ANSWER SHEET



CADET COLLEGE PETARO

ENTRY 2026 FOR ADMISSION TO CLASS VIII

ANSWER SHEET

Name of Candidate (IN CAPITAL LETTERS)

G H U L A M - M U H A M M A D

ROLL NUMBER

26-E- 2 5 1 6

0	0	0	0
1	1	1	1
2	2	2	2
3	3	3	3
4	4	4	4
5	5	5	5
6	6	6	6
7	7	7	7
8	8	8	8
9	9	9	9

INSTRUCTIONS

1. This sheet should not be folded or crushed.
2. Use black ball point pen to record the answer.
3. Rough work must not be done on the answer sheet.
4. Please do not make any stray marks on the answer sheet.

WRONG MARKING



CORRECT MARKING



Darken one circle deeply for each question in the ANSWER SHEET, as faintly darkened, half darkened circle might be rejected by the Optical

CANDIDATE's Sign.

[Signature]

INVIGILATOR's Sign.

[Signature]

SUBJECT : MATHEMATICS

1 (A) (B) (C) (D)	11 (A) (B) (C) (D)	21 (A) (B) (C) (D)	31 (A) (B) (C) (D)
2 (A) (B) (C) (D)	12 (A) (B) (C) (D)	22 (A) (B) (C) (D)	32 (A) (B) (C) (D)
3 (A) (B) (C) (D)	13 (A) (B) (C) (D)	23 (A) (B) (C) (D)	33 (A) (B) (C) (D)
4 (A) (B) (C) (D)	14 (A) (B) (C) (D)	24 (A) (B) (C) (D)	34 (A) (B) (C) (D)
5 (A) (B) (C) (D)	15 (A) (B) (C) (D)	25 (A) (B) (C) (D)	35 (A) (B) (C) (D)
6 (A) (B) (C) (D)	16 (A) (B) (C) (D)	26 (A) (B) (C) (D)	36 (A) (B) (C) (D)
7 (A) (B) (C) (D)	17 (A) (B) (C) (D)	27 (A) (B) (C) (D)	37 (A) (B) (C) (D)
8 (A) (B) (C) (D)	18 (A) (B) (C) (D)	28 (A) (B) (C) (D)	38 (A) (B) (C) (D)
9 (A) (B) (C) (D)	19 (A) (B) (C) (D)	29 (A) (B) (C) (D)	39 (A) (B) (C) (D)
10 (A) (B) (C) (D)	20 (A) (B) (C) (D)	30 (A) (B) (C) (D)	40 (A) (B) (C) (D)

CADET COLLEGE PETARO

CLASS-VIII MODEL TEST PAPER MATHEMATICS

Time: 1 Hour

Max. Marks: 100

MARK CORRECT CHOICE BY FILLING IN THE APPROPRIATE BOX ON THE GIVEN ANSWER SHEET

SECTION-A (OBJECTIVE)

[80 Marks]

Q.1. Choose the correct answer for each from the given options.

1. $\{2, 4, 5, 7\} - \{1, 2, 3, 5, 6\} =$ _____
(A) $\{4, 6\}$ (B) $\{4, 7\}$
(C) $\{1, 2, 3, 4, 5, 6, 7\}$ (D) none
2. A singleton set consist _____ element/elements.
(A) No (B) One
(C) Two (D) Three
3. $x + y = y + x$, this is called law of addition.
(A) Commutative (B) Associative
(C) Distributive (D) none
4. A polynomial having one term is called .
(A) Linear (B) Binomial
(C) Monomial (D) None
5. The additive inverse of $\frac{2}{3}$ is
(A) $\frac{2}{3}$ (B) $-\frac{2}{3}$
(C) $\frac{3}{2}$ (D) $-\frac{3}{2}$
6. If $x : 2 = 12 : 6$ then $x = ?$
(A) 3 (B) 4
(C) 6 (D) 12
7. $1+2+3+4+5+6+5+4+3+2+1=?$
(A) 42 (B) 52
(C) 36 (D) 72

8. Which one of the following is true?

(A) $d = 2r$

(B) $r = 2d$

(C) $c\pi = d$

(D) $d = r\pi$

9. $(-4)^{-n}$ is negative when n is _____.

(A) Even

(B) Odd

(C) Even odd both

(D) None

10. A floor has an area of 100 square meters. What is the perimeter of floor?

(A) 10cm

(B) 20cm

(C) 40cm

(D) None

11. $(PUA)UB = PU(AUB)$ is _____ property.

(A) Commutative

(B) Associative

(C) Distributive

(D) none

12. $U' =$ _____

(A) U

(B) $\emptyset$

(C) $\{\emptyset\}$

(D) none

13. The factors of $25y^2 - 4z^2$ _____.

(A) $(5y - 4z)(5y + 4z)$

(B) $(5y - 2z)(5y + 2z)$

(C) $(y - 2z)^2$

(D) none

14. 131.2345 is a/an _____ number.

(A) Irrational

(B) Rational

(C) Odd

(D) Prime

15. $B \cup B' =$ _____.

(A) B

(B) U

(C) $\emptyset$

(D) B'

16. If we round off 7.3956 to three decimal places, then the decimal number will be _____.

(A) 7.396

(B) 7.395

(C) 7.394

(D) 7.3956

17. $a^2 - b^2 =$ _____.

(A) $(a - b)^2$

(B) $a^2 + 2ab + b^2$

(C) $(a - b)(a + b)$

(D) $a^2 - 2ab + b^2$

18. If C = Set of first six odd numbers and $D = \{ 0, 1, 2, 4, 6 \}$ then sets C and D are ____ sets.

- | | |
|-----------------|----------------|
| (A) Overlapping | (B) Disjoint |
| (C) Equal | (D) Equivalent |

19. $\frac{17}{10}$ is ____ decimal.

- | | |
|---------------------|-------------------|
| (A) Non-terminating | (B) Terminating |
| (C) Recurring | (D) Non-recurring |

20. 213324 is not exactly divisible by ____.

- | | |
|-------|-------|
| (A) 2 | (B) 3 |
| (C) 6 | (D) 8 |

21. If $A = \{ a, b, c, d \}$, then ____.

- | | |
|---------------|------------------|
| (A) $e \in A$ | (B) $c \notin A$ |
| (C) $a \in A$ | (D) $b \notin A$ |

22. A rectangular wall has a length of 45 meters and height of 31 meter. Its perimeter is ____

- | | |
|---------|----------|
| (A) 76 | (B) 1395 |
| (C) 152 | (D) 125 |

23. The area of the floor of a banquet hall designed in the form of a square is 1521 m^2 . The length of each side is:

- | | |
|---------|---------|
| (A) 380 | (B) 39 |
| (C) 78 | (D) 156 |

24. The volume of a box that is 11 cm long, 4 cm wide and 7 cm high is _____ cm^3

- | | |
|---------|---------|
| (A) 308 | (B) 28 |
| (C) 44 | (D) 380 |

25. If y is directly proportional to x when $x = 4$ and $y = 2$. Find y if $x = 2$

- | | |
|-------|-------|
| (A) 1 | (B) 2 |
| (C) 3 | (D) 4 |

26. $2 - y^0 + y =$ _____

- | | |
|---------------|-------------|
| (A) $2 + y$ | (B) $1 + y$ |
| (C) $1 + y^2$ | (D) 2 |

27. In a school 49 out of 70 teachers are female. The percentage of female teachers are:

- | | |
|---------|---------|
| (A) 50% | (B) 40% |
| (C) 60% | (D) 70% |

28. If $z = 9, 11, 12, 14, 17, 23, 27, 30$ then median $z =$ _____

- | | |
|----------|--------|
| (A) 14 | (B) 17 |
| (C) 15.5 | (D) 15 |

29. If $a = -1$ and $b = 2$ then $-4b + 2a =$ _____

- | | |
|---------|--------|
| (A) 8 | (B) -8 |
| (C) -10 | (D) 10 |

30. The product of $4bz^3$ and $9b^3z^2$ is:

- | | |
|----------------|----------------|
| (A) $13b^4z^6$ | (B) $36b^4z^6$ |
| (C) $13b^4z^3$ | (D) $36b^4z^3$ |

31. In ΔPQR sum of angles P and Q is 125° the angle R is:

- | | |
|----------------|----------------|
| (A) 25° | (B) 65° |
| (C) 75° | (D) 55° |

32. If $A = \{a, b, c\}$, $B = \{a, b, c, d, e\}$ then _____

- | | |
|-------------------|-------------------|
| (A) $A = B$ | (B) $A \sim B$ |
| (C) $A \subset B$ | (D) $B \subset A$ |

33. Imran planted 425 plants of mangoes. After some days 25 plants died. What fraction of plants was survived?

- | | |
|---------------------|--------------------|
| (A) $\frac{16}{17}$ | (B) 400 |
| (C) $\frac{1}{17}$ | (D) $\frac{2}{19}$ |

34. The ratio between 200 grams and 5kg is _____

- | | |
|--------------------|--------------------|
| (A) $\frac{1}{25}$ | (B) $\frac{1}{40}$ |
| (C) $\frac{5}{20}$ | (D) $\frac{1}{52}$ |

35. The radius of the wheel of a machine is 14 cm. The wire will be needed to round the wheel for one full round is _____cm

- | | |
|--------|--------|
| (A) 7 | (B) 88 |
| (C) 21 | (D) 44 |

36. In a school 56 out of 70 teachers are female. The percentage of female teachers is_

- (A) 56% (B) 70%
(C) 80% (D) 20%

37. If $2^x = 8$, then the value of $x =$ _____

- (A) 2 (B) 3
(C) 4 (D) 8

38. Which measure is equivalent to 1.5 kilograms?

- (A) 15 grams (B) 150 grams
(C) 1500 grams (D) 15000 grams

39. Trapezium is the type of :

- (A) Triangle (B) Quadrilateral
(C) Pentagon (D) Hexagon

40. The sum of the interior angles of a quadrilateral is:

- (A) 90° (B) 180°
(C) 270° (D) 360°

SECTION-B

[20 Marks]

NOTE: ATTEMPT ALL QUESTIONS.

Q.2 Construct a parallelogram ABCD in which $m\overline{BC} = 6\text{ cm}$, $m\overline{CD} = 4\text{ cm}$ [5 Marks]
and $m\overline{BD} = 7.3\text{ cm}$

Q.3 Find the factors of the following: [5 Marks]
(i) $m^4 - m^3 + m^2$ (ii) $z^2 + 12z + 13$

Q.4 Solve and verify the following equations. [5 Marks]
(i) $3y + 9 = 18$ (ii) $\frac{x-1}{x+2} = \frac{4}{3}$

Q.5 A mobile phone company uses a markup rate of 55% on the cost of each [5 Marks]
mobile phone the cost Rs. 2,260. Find the selling price of mobile phone.

***** THE END *****