

Paper: _____ Maths _____

Month Test: _____ 3rd term _____

Theme/Unit: _____ 1,2,6(half) _____

Objective / Subjective:

ID: _____

Name: _____

class: _____ 8th _____



Total Marks: _____ 48 _____

Obt. Marks: _____

Grand Total: _____ 100 _____

Time: _____

Section: _____

Q.1. Encircle the correct option.

- i. The number of subsets of a set $\{0\}$ is
 - a) One
 - b) Two
 - c) Three
 - d) Four
- ii. A set consisting of all subsets of the set X is called _____.
 - a) Subset
 - b) Universal set
 - c) Super set
 - d) Power set
- iii. Which of the following is not a set?
 - a) $\{a, b, c\}$
 - b) $\{1,2,3\}$
 - c) $\{1,2,2,3,4\}$
 - d) $\{1,2,3,4,5\}$
- iv. Natural numbers start from
 - a) 0
 - b) 1
 - c) 2
 - d) 3
- v. Set of rational numbers is denoted by
 - a) P
 - b) Q
 - c) O
 - d) E
- vi. The set of integers is denoted by
 - a) P
 - b) Q
 - c) E
 - d) None
- vii. The number of subsets of set $\{1,2,3,4\}$ are
 - a) 4
 - b) 8
 - c) 16
 - d) 32
- viii. Every set is _____ subset of itself.
 - a) Proper
 - b) Improper
 - c) Super
 - d) None
- ix. There is/are _____ proper subset of a singleton set.
 - a) One
 - b) Two
 - c) Zero
 - d) None
- x. There is no proper subset of _____ set.
 - a) Singleton
 - b) Integers
 - c) Empty
 - d) None
- xi. $1/9$ is _____ fraction.
 - a) Repeating
 - b) Non-repeating
 - c) Terminating
 - d) None

- xii. The decimals which are non-terminating and non-repeating are called _____ numbers.
- a) Even
b) Odd
c) Rational
d) Irrational
- xiii. The number of digits in square root of 42729 will be
- a) 1
b) 2
c) 3
d) 4
- xiv. Square root of 2.5 is
- a) 1.00
b) 1.58
c) 1.90
d) None
- xv. Which one is perfect square?
- a) 129
b) 25.6
c) 234
d) 2.56
- xvi. Which of the following is not true about $\sqrt{81}$
- a) Natural number
b) Whole number
c) Rational number
d) Irrational number
- xvii. Cube root of 216 is
- a) 3
b) 4
c) 5
d) 6
- xviii. Square root of 0.04 is
- a) 2
b) 0.02
c) 0.2
d) 20
- xix. If the side length of square is 0.5m then its area is _____ sq. Meter.
- a) 0.5
b) 2.5
c) 0.25
d) 25
- xx. Square root of 9216 is
- a) 90
b) 96
c) 98
d) None
- xxi. _____ is subtracted from 58780, the remaining number will be a complete square.
- a) 242
b) 216
c) 961
d) None
- xxii. $a^2 - b^2 =$
- a) $(a+b)$
b) $(a-b)$
c) $A \times B$
d) None
- xxiii. If $a+b=2$, $ab=1$ then $a^2 + b^2 =$
- a) 2
b) 4
c) 6
d) None
- xxiv. If $2x + 3 = 4$ then $x =$ _____
- a) 0.5
b) 1.5
c) 2.5
d) None
- xxv. $(83)^2 =$
- a) $(80 + 3)(80 + 3)$
b) $(80 - 3)(80 - 3)$
c) (83)
d) A & c
- xxvi. $(a + b)^3 =$
- a) $a^3 + 3ab(a + b) + b^3$
b) $a^3 + 2ab(a + b) + b^3$
c) $a^3 - 3ab(a + b) + b^3$
d) None

- xxvii. $(x + y) + (x + y) =$ _____
 a) $2x+y$ c) $2x+2y$
 b) $X+2y$ d) None
- xxviii. $4(2a-3b)=$ _____
 a) $8a + 12b$ c) $6a + 7b$
 b) $8a - 12b$ d) $6a - 12b$
- xxix. $2a+3a-4a=$ _____
 a) $5a$ c) $-a$
 b) $-4a$ d) None
- xxx. If $2a+3=1$ then $a=$ _____
 a) 1 c) 2
 b) -1 d) -2
- xxxi. If $x + y = 6$, $x -y=2$ then $y =$
 a) 10 c) 2
 b) 4 d) None
- xxxii. If x is eliminated from $ax-b=0$ and $cx-d=0$ then we get
 a) $ab=cd$ c) $ab + cd =0$
 b) $ad = bc$ d) None

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Q.2. (a) Write power set of $\{1,2,3\}$. 4(b) Verify commutative law of union if $A=\{1,2,3,4...10\}$ and $B=\{3,5,7,9\}$ 4

(c) If $A=\{a, b, c\}$, $B=\{ b, d, f \}$ and $C=\{a, f, c\}$ then verify $A \cup (B \cap C) = (A \cup B) \cap C$ 4

Q.3 (a) Define De Morgan's Laws. 5

(b) Verify associative law of union through Venn diagram.

$A=\{2,4,6,8\}$, $B=\{1,3,5,7\}$, $C=\{3,6,9,12\}$ 5

Q.4 (a) Find square root of 0.00868624.

5

(b) The area of circular region is 616 sq. Meter. Find its radius.

5

Q.5 (a) Find cube root of 9261.

5

(b) Find solution set by equating the co-efficient.

$$2x+5y= -1$$

$$x-2y=4$$

5

Q.6 (a) If numerator and denominator of a fraction are decreased by 1, it becomes $\frac{1}{2}$. If numerator and denominator of the same fraction are decreased by 3, it becomes $\frac{1}{4}$. Find the fraction.

6

(b) Eliminate x by substitution method.

$$2x+3y=5$$

$$x-y=2$$

4

