

HALF YEARLY EXAMINATION — 2014-15

MATHEMATICS

Time Allowed : 3 Hrs.

Class – XI

Maximum Marks : 100

General Instructions :

- (i) All questions are compulsory.
- (ii) Q. 1 to Q.10 carries 1 mark each.
- (iii) Q.11 to Q.22 carries 4 marks each.
- (iv) Q.23 to Q.29 carries 6 marks each.

1. Is $A = \{x : x \text{ is a student of } 10^{\text{th}} \text{ and } 11^{\text{th}} \text{ classes}\}$ an empty set ? Why ?
2. Write $A = \{x : x \text{ is a prime number less than 50 and the digit in the unit's place is 1}\}$ in Roster form.
3. Tell the difference between $\{\phi\}$ and ϕ .
4. Express $i^9 + i^{10} + i^{11} + i^{12}$ in $a + ib$ form.
5. Let A and B be 2 sets such that $A \times B$ has 6 elements. If 3 elements of $A \times B$ are $(1, 4); (2, 6); (3, 6)$ find $B \times A$.
6. Find a and b if $(a + b, 2b - 3) = (4, -5)$.
7. If $P(n) : n^2 - n + 41$ is a prime number. Is $P(41)$ true ?
8. Evaluate : $\sqrt{-25} + \sqrt{-81}$
9. Evaluate : $\cos(-1710^\circ)$
10. Prove : $\frac{\tan 69^\circ + \tan 66^\circ}{1 - \tan 69^\circ \tan 66^\circ} = -1$
11. If $A = \{1, 2, 3, 4\}; B = \{2, 4, 6, 8\}; C = \{3, 4, 5, 6\}$ then find (i) $A \cup B$ (ii) $B \cap C$ (iii) $A - B$ (iv) A^c .
12. Write the power set of $A = \{a, e, i\}$. What is the difference between the elements of A and $P(A)$.
13. If $U = \{1, 2, \dots, 9\}; A = \{x : x \text{ is an even number}\}; B = \{x : x \text{ is a prime number}\}$ then verify the (i) $(A \cup B)^c = A^c \cap B^c$ (ii) $(A \cap B)^c = A^c \cup B^c$.

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CO Houle



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