

ST. GEORGE'S SCHOOL ,ALAKNANDA

UNIT TEST – 1

SUBJECT :- MATHEMATICS

CLASS :-XI

DATE:-05.05.2015

MM:25

MAX. TIME: 45 MIN.

NO. OF PAGES:01

General Instructions :

a. All questions are compulsory.

- Q1. Let $A = \{2,4,6,8,10,12\}$ and $B = \{6,8,10\}$. Find the value of $A \cap B$ and show that $A \cap B = B$. 1 Mark
- Q2. Let $U = \{1,2,3,4,5,6,7,8\}$, $A = \{2,3,4,5,6\}$ and $B = \{3,6,7,8\}$ then determine the value of (i) $(A \cup B)'$ (ii) $(A \cap B)'$ 1 Mark
- Q3. How many elements have $P(A)$ if $A = \Phi$ 1 Mark
- Q4. Let $A = \{2,3,4\}$, $U = \{0,2,3,4,5\}$ is the universal set.
(i) $\{0\} \in A'$ (ii) $\{0\} \subset A'$ (iii) $0 \in A'$ (iv) $0 \subset A'$,
which of the given statements is correct (give reason)? 2 Marks
- Q5. Draw venn diagram of
(i) $(A \cup B) \cap C$ (ii) $(A \cap B) \cup C$ 2 Marks
- Q6. The combined membership of the Mathematics Association and Science Club is 122. What is the membership of Science Club if 50 are known to be members of the mathematics association and 28 are members of both the organizations? 3 Marks
- Q7. Verify De Morgan's Law. 3 Marks
- Q8. Given universal set = $\{x: x \in N \text{ and } 3 \leq x < 15\}$,
 $A = \{x: x \leq 8\}$
 $B = \{x: 7 < x \leq 14\}$,
 $C = \{3,4,5,6,7\}$ and $D = \{\text{odd numbers less than } 13\}$
(i) Describe C in relation to B
(ii) Name the equivalent sets
(iii) Name the sets which are disjoint
(iv) Describe the set $\{x: 8 < x < 15\}$ with respect to set A. 4 Marks
- Q9. A and B are two sets such that $n(A - B) = 14 + x$, $n(B - A) = 3x$ and $n(A \cap B) = x$.
(i) Illustrate the information by means of a Venn Diagram.
(ii) Calculate, given that $n(A) = n(B)$
(i) the numerical value of x
(ii) $n(A \cup B)$ 4 Marks
- Q10. There are 40 students in a chemistry class and 60 students in a physics class. Find the number of students which are either in physics class or chemistry class in the following cases:-
(i) the two classes meet at the same hour.
(ii) the two classes meet at different hours and 20 students are enrolled in both the subjects. 4 Marks

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