Time: 30 Minutes   **Marks: 05**

Q) Answer <u>any 5</u> question from the following.   **(05 Marks)**

1) Write the set A=$\{2x+1 /x \in N; 1 \le x \le 5\}$ in list form.   **(1)**
2) A=$\{1,3,5\}$ and B=$\{x/ x^2 - 8x +15=0\}$. Is set A=B?   **(1)**
3) If A and B are two sets such that A has 21 elements and B has 32 elements and A∪B has 42 elements, find the number of elements in the set A∩B.   **(1)**
4) Calculate the simple interest on ₹2000 for 232 days at the rate of 5⅙ % per annum.   **(1)**

5) Find the compound interest on ₹2500 for 2 years at 5% per annum compounded half yearly.   **(1)**
6) Given A=$\{1,2,3,4,5,6,7,8\}$ and B=$\{2,3,4,6,8\}$. Write set A-B.   **(1)**
7) A=$\{2,4,6,8,9\}$, B=$\{1,2,3,4,5,6\}$, C=$\{3,4,5,6,7,8\}$. Write the set A∩ (B∪ C)   **(1)**