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GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS
FARMAGUDI, PONDA – GOA
B.COM. UGC-CCFUP (SEMESTER-I) Intra Semester Assessment (ISA-I)-Test AUGUST 2023
COM-142 – BUSINESS MATHEMATICS - I

Time: 30 Minutes

Marks: 05

Q) Answer any 5 question from the following. (05 Marks)

- 1) Write the set $A = \{2x+1 / x \in \mathbb{N}; 1 \leq x \leq 5\}$ 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 $A \cup B$ has 42 elements, find the number of elements in the set $A \cap B$. (1)
 - 4) Calculate the simple interest on ₹2000 for 232 days at the rate of $5\frac{1}{6}\%$ 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 $A \cap (B \cup C)$ (1)
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