Goa Vidyaprasarak Mandal's
Gopal Govind Poy Raiturcar College of Commerce & Economics
Farmagudi - Ponda, Goa
B.C.A. UGC-CCFUP (Semester I) Intra Semester Assessment (ISA) I-Test, August 2024
MAT-111 - Elementary Mathematics

Duration : 30 minutes **Marks : 10**

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Q1. Answer any two of the following : (2M)[CO1][BL1]

a) Define a statement in logic.
b) Define a compound statement.
c) Name the method of writing a set by giving the properties of it's elements.
d) Name the method of writing a set by writing the elements of that set.

Q2. Answer any four of the following : (8M)[CO1][BL1]

i) Recall D Morgan's Laws.
ii) Recall the truth table for 'if and only if'.
iii) Find the truth table for the statement $\sim (p \wedge q) \leftrightarrow q$.
iv) Find the elements of the set $\{x \epsilon \mathbb{N} \mid 1 \leq x^2 \leq 64\}$
v) Find the truth table for the statement $(\sim p \vee q) \rightarrow \sim q$

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