GVM's GGPR College of Commerce & Economics,
Farmagudi- Ponda, Goa.
B.Com (Semester I) Intra Semester Assessment (ISA) I- Test,
July 2019

COMMERCIAL ARITHMETIC - I

Duration: 30 minutes Marks: 10

Q1. Let p: It is Sunday.
q: It is holiday. Write the following statements in symbolic form. (1)
a) If it is holiday then it is Sunday.
b) If it is not Sunday then it is not holiday.

Q2. State whether the following sentences are statements in logic. (1)
a) Are you ok?
b) 2 is a even number.

Q3. Prepare truth table for the statement (~p v~q) . (1)

Q.4 Construct truth table to verify that ~(~p) ≡ p. (1)

Q.5 Let p: Ponda is in Goa. q: Goa is in India. (1)
Write down the following statements in verbal form.
a) p → ~q
b) q → ~p.

Q.6 If $X = \{x/x \in \mathbf{N}, 1 \leq x \leq 10\}$
$A = \{2x/x \in \mathbf{N},\ 1 \leq x \leq 5\}, B = \{1,2,4,5,7,9\}$
Verify that $(A \cup B)^C = A^C \cap B^C$ (2)

Q.7 If A is the set of letters in the word BELLOW
B is the set of letters in the word ELBOW.
Is A = B ? justify your answer. (1)

Q.8 $X = \{a, b, c, d, e, f, g, h, i, j\}$
$A = \{a, c, d, j\}, \quad B = \{b, c, d, e, f, j\}$
Show that $(A - B)^C = A^C \cup B$ (2)