

Course Title: Discrete Structure
Discipline/Program: BSCS(3A), BSS
Total Marks: 30
Time allowed: 2.5 Hours

### **Question No 1: (3+3)**

a) Write an explicit formula for the following sequence and find the 19<sup>th</sup> term in the sequence using explicit formula.

$$1 - \frac{1}{2} \cdot \frac{1}{2} - \frac{1}{3} \cdot \frac{1}{3} - \frac{1}{4} \cdot \frac{1}{4} - \frac{1}{5} \cdot \frac{1}{5}$$

T4

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b) Find the sum of series of first three hundred natural numbers through formula

### **Question No 2: (4+4)**

a) Define the type of each relation.

- $R1 = \{(1, 1), (1, 2), (1, 3), (2, 3)\}$
- $R2 = \{(1, 2), (1, 4), (2, 3), (3, 4)\}$
- $R3 = \{(2, 1), (2, 4), (2, 3), (3, 4)\}$
- $R4 = \{(2, 1), (2, 4), (2, 3), (3, 4)\}$

b) After that only draw the directed graph for reflexive relation.

### **Question No 3: (3+5)**

a) Find all functions from  $X = \{a, b\}$  to  $Y = \{u, v\}$ .

b) Using truth table identify critical rows and verify either argument is valid or invalid :

- Socrates has a new toga or he didn't waste 30 drachmas.
- Plato has a pound of feta cheese or a quart of olive oil.
- Socrates wasted 30 drachmas and Plato doesn't have a pound of feta cheese.
- Therefore, Socrates has a new toga and Plato has a quart of olive oil.

### **Question No 4: (4+4)**

a) Find the values  $(A \cap B)^c = A^c \cup B^c$  where Given sets are:

- $A = \{1, 2\}$
- $B = \{2, 3\}$
- $U = \{1, 2, 3, 4\}$

And Prove the above one using Venn Diagrams and with the help of Membership Table.

b) Prove the given by using Membership Table:

- (i)  $A - (A - B) = A \cap B$
- (ii)  $(A \cap B)^c = A^c \cup B^c$
- (iii)  $A - B = A \cap B^c$

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Franciscus Marcel De Bondt, 2005 Divided into two volumes the first volume reviews the scientific debate between leading behavioral scientists and proponents of rational markets and rational economic man the second volume finds anomalies in financial decision making and in the behavior of equity markets that are interpreted in the context of empirical and theoretical research     Metal Worker, Plumber and Steam Fitter ,1908

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