FINALTERM EXAMINATION
Fall 2009
MTH202- Discrete Mathematics

Question No: 1 (Marks: 1) - Please choose one

Let A = {a, b, c} and
R = {(a, c), (b, b), (c, a)} be a relation on A. Is R

- ► Transitive
- ► Reflexive
- ► **Symmetric**
- ► Transitive and Reflexive

Question No: 2 (Marks: 1) - Please choose one

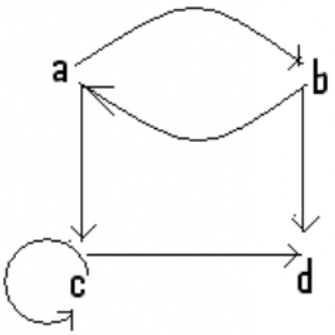
Symmetric and antisymmetric are

- ► Negative of each other
- ► Both are same
- ► **Not negative of each other (Page 90)**

Question No: 3 (Marks: 1) - Please choose one
The statement p □ q □ q □ p describes

- ► **Commutative Law:**
- ► Implication Laws:
- ► Exportation Law:
- ► Equivalence:

Question No: 4 (Marks: 1) - Please choose one
The relation as a set of ordered pairs as shown in figure is



- ► {(a,b),(b,a),(b,d),(c,d)}
- ► {(a,b),(b,a),(a,c),(b,a),(c,c),(c,d)}
- ► **{(a,b), (a,c), (b,a),(b,d), (c,c),(c,d)}**
- ► {(a,b), (a,c), (b,a),(b,d),(c,d)}

Question No: 5 (Marks: 1) - Please choose one
The statement p □q □ (p □ ~q) □c describes