



- Q7. Let  $A = \{2, 3, 4, 5, \dots, 17, 18\}$ . Let ' $\simeq$ ' be the equivalence relation on  $A \times A$ , Cartesian product of  $A$  with itself defined by  $(a, b) \simeq (c, d)$  iff  $ad = bc$ . Then, the number of ordered pairs of the equivalence class of  $(3, 2)$  is
- a. 4                      b. 5                      c. 6                      d. 7
- Q8. Let  $A = \{1, 2, 3\}$ . Then, the number of relations containing  $(1, 2)$  and  $(1, 3)$  which are reflexive and symmetric but not transitive is
- a. 1                      b. 2                      c. 3                      d. 4
- Q9. The relation ' $R$ ' in  $N \times N$  such that  $(a, b) R (c, d) \Leftrightarrow a + d = b + c$  is
- a. reflexive but not symmetric      b. reflexive and transitive but not symmetric  
c. an equivalence relation      d. none of these
- Q10. If  $A = \{1, 2, 3\}$ ,  $B = \{1, 4, 6, 9\}$  and  $R$  is a relation from  $A$  to  $B$  defined by ' $x$  is greater than  $y$ '. Then range of  $R$  is
- a.  $\{1, 4, 6, 9\}$       b.  $\{4, 6, 9\}$       c.  $\{1\}$       d. none of these

Due date of submission of assignment 20 July,2021

send your assignment on e-mail ID of your respective subject teacher

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**Students must mention their name,class/section and date in their assignment.**

**your assignment will be marked for internal/term assessment. Therefore you are required to submit it on time.**

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