

[25/A-3]

**SARDAR PATEL UNIVERSITY**  
**M.Sc.IT (Integrated) EXAMINATION, SEMESTER V**  
**Thursday, 2<sup>nd</sup> November, 2017**  
**10:00 a.m. to 1:00 p.m.**  
**PS05FIIT01 – Operation Research**

Maximum Marks: 70

- Q-1 Multiple Choice Question.[Each Question carries one Mark] [10]**
- 1) In graphical method the restriction on number of constraint is \_\_\_\_\_.  
[a] 2 [b] 3 [c] not more than 3 [d] none of the above
  - 2) In graphical representation the bounded region is known as \_\_\_\_\_ region.  
[a] Solution [b] feasible solution [c] basic solution [d] optimal
  - 3) The solution to LPP give below is \_\_\_\_\_  
 $Max Z = 30x_1 - 15x_2$  subject to  $2x_1 - 2x_2 \leq 2$ ,  $-2x_1 + 2x_2 \leq 2$  where  $x_1, x_2 \geq 0$   
[a] Unbounded solution [b] Max Z = 30  
[c] Max Z = 15 [d] Infeasible solution
  - 4) In the simplex method for solving of LPP number of variables can be \_\_\_\_\_.  
[a] Not more than three [b] at least three [c] at least two [d] none of them
  - 5) The \_\_\_\_\_ variable is added to the constraint of less than equal to type.  
[a] slack [b] Surplus [c] artificial [d] basic
  - 6) From the following methods \_\_\_\_\_ is a method to obtain initial solution to Transportation Problem.  
[a] North-West [b] Simplex [c] Hungarian [d] Newton Raphson
  - 7) North - West corner refers to \_\_\_\_\_.  
[a] top left corner [b] top right corner  
[c] both of them [d] none of them
  - 8) In sequencing the time involved in moving jobs from one machine to another is \_\_\_\_\_.  
[a] negligible [b] significant [c] positive number [d] none of them
  - 9) \_\_\_\_\_ Event represents beginning of more than one activities.  
[a] burst [b] merge [c] dummy [d] none of them
  - 10) Activity which starts only after finishing other activity is called \_\_\_\_\_.  
[a] dummy [b] Predecessor [c] successor [d] none of them





