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Roll No.

Total No. of Pages : 02

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Total No. of Questions : 07

B.Com(2011 & Onwards) (Sem.-3) OPERATION RESEARCH Subject Code : BCOP-304 Paper ID : [B1127]

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTION TO CANDIDATES :

- 1. SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains SIX questions carrying TEN marks each and students has to attempt any FOUR questions.

SECTION-A

- **I.** Write briefly :
 - a. Explain applications of Operations Research in brief.
 - b. What are the limitations of LPP?
 - c. What is Unbalanced Transportation problem?
 - d. Define Travelling salesman problems.
 - e. Explain the principle of Dominance in game theory.
 - f. Define the term Basic feasible solution in LP Problems?
 - g. Define Objectives of Inventory Control.
 - h. What is Critical Path?
 - i. How to calculate floats in network analysis?
 - j. What are the advantages of Dual problem?

SECTION-B

- 2. Define Operations Research. Discuss briefly the techniques of Operations Research.
- 3. What is Travelling Salesman Problem in assignment? Explain the procedure to solve it.

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4. Obtain the optimal solution of the following assignment problem :

	Ι	II	III	IV	V
1	11	17	8	16	20
2	9	7	12	6	15
3	13	16	15	12	16
4	21	24	17	28	26
5	14	10	12	11	13

5. Using stepping stone method solve the following transportation problem to minimize transportation cost :

Factory		Depot	Capacity		
	D	E	F	G	
Α	4	6	8	6	700
В	3	5	2	5	400
С	3	9	6	5	600
Required	400	450	350	500	1700
. Solve the follow	ing game :		0	S,	

6. Solve the following game :

		Player Q	0	
	I	П	ш	IV
Ι	6	4	8	0
II	6	8	4	8
III	8	4	8	0
IV	0	8	0	16

7. From the following draw network, critical path and calculate floats :

Activity	А	В	C	D	Е	F
Preceding activity	_	_	А	А	B, C	D, E
Normal time (Days)	16	20	8	10	6	12