

Operational Research QP Code : NR-14253

(2 Hours)

[Total Marks : 60]

- N. B. :** (1) Section I is compulsory.
 (2) Answer any three Questions from Section II.
 (3) Answer of both sections to be written in the same answer-book.
 (4) Figures to the right side of the questions indicate marks.
 (5) Use of non-programmable calculator is allowed and mobile phone is not allowed.
 (6) Normal distribution table is attached on the last page for use if required.
 (3) Support your answers with diagrams / illustrations.

SECTION I

1. Answer the following questions briefly :-

- | | |
|--|---|
| (a) Uses of slack, surplus and artificial variables in solving the LPP. | 3 |
| (b) Degeneracy in transportation problem. | 3 |
| (c) Objectives of Project crashing. | 3 |
| (d) How do you prepare a balanced maximization problem with restrictions for Hungarian method in assignment problem? | 3 |
| (e) Distinguish between basic feasible solution and optimum solution of LPP. | 3 |

2. M/s Motwani Limited have taken up a special project consisting of 10 activities whose three point time estimates are listed in the table below. Activities are marked with their node numbers.

Activity	Time Estimates in Weeks		
	Optimistic	Most likely	Pessimistic
1-2	1	2	3
1-3	1	2	3
1-4	1	2	3
2-5	4	9	20
3-5	2	5	14
3-7	3	6	15
5-7	1	2	9
4-6	2	4	6
6-7	3	3	3
7-8	4	4	4

- | | |
|--|---|
| (i) Draw network diagram and find expected completion time of project. | 4 |
| (ii) Identify critical path. | 1 |
| (iii) Find the probability that the project is completed in 17 weeks. | 2 |

Operations Research Paper

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