Reg. No.

MANIPAL UNIVERSITY

FOURTH SEMESTER M.ARCH (URBAN DESIGN & DEVELOPMENT) DEGREE EXAMINATION – JULY 2017

SUBJECT: PROJECT MANAGEMENT FOR URBAN DEVELOPMENT (ARM 726)

Wednesday, July 12, 2017

Time: 10:00 - 13:00 Hrs.

Max. Marks: 50

- Answer any FIVE full questions.
- The answers should be supported with examples and sketches wherever necessary.
- Any missing data can be assumed suitably.
- 1A. Define project and project management.
- 1B. Elaborate on characteristics of a Project.

(5+5 = 10 marks)

- 2A. Differentiate between CPM and PERT techniques.
- 2B. Elaborate on Project Manager's roles and responsibility.

(5+5 = 10 marks)

3A. A construction project consists of the following important activities to be followed with their expected duration of time.

Activities	Duration (days)	
0-1	4	
1-3	14	
1-2	5	
2-3	8	
2-5	12	
3-4	6	
4-5	2	

Draw the network diagram and identify the critical path.

3B. What is Scheduling? What are the advantages of scheduling in project management?

(5+5 = 10 marks)

4. The project consists of the following activities and their time estimates are given below-

Activity	Time (in days)			
	Optimistic (t _o)	Most Likely (t _m)	Pessimistic (t _p)	
1-2	1	3	4	
2-3	4	5	8	
1-3	2	4	5	

1-4	6	8	9
2-4	3	7	12
3-5	7	9	15
4-5	2	5	9
4-6	1	4	5
5-7	4	5	10
6-7	2	7	13

- 4A. Draw the network diagram.
- 4B. Calculate Slack time for each event.
- 4C. Determine the critical path of the activity.

(3+5+2 = 10 marks)

- 5A. Discuss the need for conducting Social Cost Benefit Analysis.
- 5B. Explain the UNIDO approach to conduct Social Cost Benefit Analysis.

(5+5 = 10 marks)

- 6A. What is Entrepreneurship?
- 6B. What is the need and importance of entrepreneurship in economic development?

(4+6 = 10 marks)