

## MANIPAL UNIVERSITY

## EIGHTH SEMESTER B. ARCH. DEGREE EXAMINATION – MAY 2016

## SUBJECT: ELECTIVE I - PROJECT MANAGEMENT AND VALUATION (ARC-406.2)

Friday, May 27, 2016

Time: 10:00 – 13:00 Hrs.

Max. Marks: 50

- ✍ Answer at least TWO full questions from each part A & Part B. Total FIVE full questions in all.
- ✍ Missing data be suitably assumed.

PART – A

- 1A. Explain the relevance of project management to construction profession.
- 1B. Define the term “project”.
- 1C. Discuss the various stages of Project management.

(3+2+5 = 10 marks)

## 2. Briefly explain:

- 2A. Project scheduling
- 2B. Basic scheduling tools and techniques for project Management.

(5 marks × 2 = 10 marks)

- 3A. Highlight the significance of crashing of project. Briefly explain the procedure for the same.
- 3B. Identify the critical path in the network for the following activity:

Activity	A	B	C	D	E	F	G	H
Duration (days)	4	5	3	2	2	4	5	2
Immediate predecessor	---	A	A	B	C	C	D,E,F	G

(5 marks × 2 = 10 marks)

- 4A. Draw a network for a project consisting of following activities with connectivity data. Compute the start, finish time and float for each activity and identify the critical path in the network.

Activity	A	B	C	D	E	F	G	H
Immediate Predecessor	-	A	B	B	C,D	D	E	F,G
Duration (days)	14-18-21	7-9-12	8-10-12	15-17-23	9-11-13	3-5-7	6-9-10	10-12-14

## 4B. Write short note on:

- i) Project costs                      ii) Resource leveling

(6+(2+2) = 10 marks)

## PART - B

5A. Briefly explain factors affecting the value of land property.

5B. Development method of building estates.

(5 marks  $\times$  2 = 10 marks)

6A. Present cost of a building with comparable construction is ₹ 15,00,000. The building is 10 yrs old and future useful life of 40yrs. If rate of interest is 8%.p.a determine the depreciation and the present value of the building.

6B. What is guidance value of the land? Explain briefly the belting method of valuation.

(6+(1½+2½) = 10 marks)

7. **Write short notes on:**

7A. Methods of depreciation

7B. Sinking fund

7C. Rental method of valuation

7D. Salvage value

(2½ marks  $\times$  4 = 10 marks)

