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18ENG85

Eighth Semester B.Arch. Degree Examination, June/July 2024 Construction and Project Management

Time: 3 hrs.

Max. Marks:100

Note: Answer any FIVE full questions, choosing ONE full question from each module.

Module-1

- 1 a. State the principles and objectives of Project Management. (10 Marks)
 b. Elaborate on life cycle phases of Project Management. (10 Marks)

OR

- 2 a. What is Project Management? (05 Marks)
 b. List and define study areas of project management. (15 Marks)

Module-2

- 3 What is the significance of project feasibility study write a brief note on it? (20 Marks)

OR

- 4 Write short notes on : (20 Marks)
 i) Decision tree
 ii) SWOT analysis
 iii) Cost benefit analysis
 iv) Investment criteria.

Module-3

- 5 a. Define the following : (10 Marks)
 i) Activity
 ii) Event
 iii) Dummy activity
 iv) Sequencing
 v) Successor activity.
 b. Construct the network diagram for a project whose activities are given below :

Activities	Immediate Predecessor
A	-
B	-
C	-
D	A
E	B
F	C
G	C
H	E, F
I	D
J	H, G

(10 Marks)

Important Note : 1. On completing your answers, compulsorily draw diagonal cross lines on the remaining blank pages
 2. Any revealing of identification, appeal to evaluator and /or equations written eg, 42+8 = 50, will be treated as malpractice.

OR

- 6 For the activities given, draw the network diagram find EST, LFT, critical path and estimated time of projects completion.

Activities	Immediate Predecessor	Duration weeks
A	-	3
B	-	4
C	-	6
D	B	3
E	A	9
F	A	1
G	B	4
H	C, D	5
I	C, D	4
J	E	3
K	F, G, H	6
L	F, G, H	3
M	I	6
N	J, K	9

(20 Marks)

Module-4

- 7 a. Explain the importance of safety measures at construction site. Enlist the safety precautions to be taken at construction site to prevent accidents. (10 Marks)
 b. What is updating? What are the steps involved in the process of updating of construction projects. (10 Marks)

OR

- 8 What is quality planning? Explain briefly about quality management in construction projects. (20 Marks)

Module-5

- 9 What are the parameters considered in selection of Construction equipments? What are standard and special equipments used in construction projects. (20 Marks)

OR

- 10 Enlist 4 construction equipments one from each category and explain in detail any one of them with a neat sketch.
 i) Hauling equipment
 ii) Concrete mixer
 iii) Hoisting equipment
 iv) Piling equipment. (20 Marks)
