

B.Tech. SEM -VII (Civil) 2014 Course (CBCS) : SUMMER - 2019
SUBJECT: ELECTIVE-II CONSTRUCTION MANAGEMENT

Day: Wednesday
 Date: 15/05/2019

S-2019-2794

Time: 02.30 PM TO 05.30 PM
 Max Marks: 60

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw diagrams **WHEREVER** necessary.

- Q.1** a) Explain any two functions of construction management with suitable example. (05)
 b) How construction industry helps in development of nation? (05)

OR

- Q.1** a) Discuss the authorities and responsibilities of construction manager. (05)
 b) Explain organization and staffing as functions of management. (05)

- Q.2** a) Determine the NPV of the project whose cash flow is given below and select suitable solution. Take rate of interest as 9.5 %. (05)

Year	0	1	2	3	4	5
Cashflow (Rs.)	-2500000	550000	675000	850000	830000	745000

- b) Discuss technical and financial analysis for feasibility of a bridge project. (05)

OR

- Q.2** a) Describe benefit cost ratio with suitable example. (05)
 b) Enlist and discuss parameters required for preparation of a feasibility report of flyover construction. (05)

- Q.3** Solve the Assignment problem and find the solution by Hungarian method. (10)

Job	Machines			
	M1	M2	M3	M4
I	5	7	11	6
II	8	5	9	6
III	4	7	10	7
IV	10	4	8	3

OR

(10)

- Q.3** Find out initial basic feasible solution to the following Transportation problem by VAM.

Warehouse	Stores				Supply
	S ₁	S ₂	S ₃	S ₄	
A	7	3	5	5	34
B	5	5	7	6	15
C	8	6	6	5	12
D	6	3	6	4	14
Demand	19	24	16	16	

P.T.O.

- Q.4 a) Explain artificial intelligence? (05)
b) What is biological neuron. (05)

OR

- Q.4 What is ANN? Draw the diagram and discuss its application in civil engineering. (10)

- Q.5 Enlist different labor laws and give the salient features of any two. (10)

OR

- Q.5 What are the salient features of child labor Act and minimum wages Act. (10)

- Q.6 a) Discuss the parameters required for preparation of safety programme for construction of tunnel. (05)
b) Prepare site layout for a construction of bridge. (05)

OR

- Q.6 a) Give the necessity of safety in construction industry (05)
b) Prepare site layout for construction of industrial building. (05)

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