

**B.Tech. SEM -VII (Civil ) 2014 Course (CBCS) : WINTER - 2018**

**SUBJECT: ELECTIVE-II CONSTRUCTION MANAGEMENT**

Day: Monday  
Date: 03/12/2018

**W-2018-2529**

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) What is CIDC? Discuss the objectives of CIDC briefly. (05)  
b) What should be the education and qualities of construction manager? (05)

**OR**

- Q.1** a) Discuss the role of construction industry in employment generation. (05)  
b) What should be the ethics and duties of construction manager? (05)

- Q.2** a) Find present value of Rs 15,00,000/- receivable after 5year if the rate of interest is 12.5% and 13.5%. (05)  
b) What is feasibility of project? Discuss the technical analysis and ecological analysis for dam project. (05)

**OR**

- Q.2** Find out the NPV of the following cash flows. Which will be the best option if rate of interest is 7.5% and 8.5%. (10)

Year	0	1	2	3	4	5	6
Cash flow (Rs.)	-1200000	30000	350000	2750000	40000	450000	500000

- Q.3** Solve the following Transportation problem by VAM. (10)

Ware House	Stores					Supply
	A	B	C	D	E	
I	8	12	7	9	11	70
II	14	15	8	11	16	80
III	12	18	10	14	13	130
IV	15	20	12	10	9	90
Demand	100	70	80	60	80	

**OR**

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

Project site	Project Engineer			
A	41	72	39	52
B	22	29	49	65
C	27	39	60	51
D	45	50	48	52

**P.T.O.**

- Q.4 a)** Discuss the applications of fuzzy logic in construction industry. **(05)**  
**b)** Give the functioning of ANN. **(05)**

**OR**

- Q.4 a)** What are the objectives of Artificial Intelligence? **(05)**  
**b)** Describe artificial neuron and biological neuron. **(05)**

- Q.5** Discuss salient features of provident fund Act and contract labor Act 1970. **(10)**

**OR**

- Q.5** Discuss Industrial Dispute Act and Law of contract. **(10)**

- Q.6 a)** Discuss the cases of accidents on construction site. **(05)**  
**b)** Prepare a site layout for construction of a Ten storied RCC building. **(05)**

**OR**

- Q.6 a)** Which parties are involved in safety management and discuss their role. **(05)**  
**b)** What are the safety benefits to employers, employees and customers? **(05)**

\* \* \* \* \*