

**B.TECH. SEM -VII (CIVIL ) 2014 COURSE (CBCS) : SUMMER -  
2018**

**SUBJECT : ELECTIVE – II : CONSTRUCTION MANAGEMENT**

Day : **Friday**

**S-2018-2474**

Time : **02.30 PM TO 05.30 PM**

Date : **25/05/2018**

Max. Marks : 60

**N. B. :**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagram **WHEREVER** necessary.
- 4) Use of non-programmable **CALCULATOR** is allowed.
- 5) Assume suitable data, if necessary.

**Q. 1 a)** What is the role of Construction Industry in Economic development of nation? **(05)**

**b)** Explain the responsibility and authority of Construction Manager **(05)**  
**OR**

**Q.1 a)** What is the necessity & importance of Construction Manager? **(06)**

**b)** Enlist the different associations and councils that have contributed in the development of Construction Industry. **(04)**

**Q. 2** What is the NPV of the following projects if rate of interest is 15 %? **(10)**

Year	Project 'A'	Project 'B'
Initial Investment Year	1,00,000	2,00,000
1	40,000	1,40,000
2	50,000	1,20,000
3	60,000	60,000
4	60,000	40,000

**OR**

**Q. 2 a)** If Rs. 150000 are invested today with rate of interest 9%, what will be the future sum accumulated in 8 years if interest is compounded quarterly. **(05)**

**b)** Explain the feasibility of the project by technical and financial analysis. **(05)**

**Q. 3 a)** Solve the Assignment Problem by Hungarian Method for minimization **(08)**

Manufacturers	Machines		
A	30	31	27
B	28	29	26
C	29	30	28
D	28	31	27
E	31	29	26

**b)** Explain saddle point with suitable examples. **(02)**

**P. T. O.**

**OR**

**Q. 3** Differentiate between the North West Corner Method and Least Cost Method for solving the Transportation Model problem with suitable example. **(10)**

**Q.4 a)** Draw the sketch and explain the working principle of artificial neural network. **(05)**

**b)** What are the applications of fuzzy logic? **(05)**

**OR**

**Q. 4 a)** Discuss the applications of ANN in Civil Engineering. **(05)**

**b)** What is Fuzzy Logic? Discuss different membership functions in Fuzzy Logic. **(05)**

**Q. 5** Give the salient features of Employment Provident Fund Act and Industrial Dispute Act. **(10)**

**OR**

**Q.5** Give the salient feature of Child Labour Act and Contract Labour Act. **(10)**

**Q.6 a)** Prepare a site layout for construction of a bridge across a river. **(07)**

**b)** What are the causes of accidents? **(03)**

**OR**

**Q. 6 a)** Prepare a site layout for construction of a 10 storeyed RCC building. **(05)**

**b)** What is safety? Give safety program for site Engineers **(05)**

\* \* \* \* \*