

**B.TECH SEM – VII (2007 COURSE) (CIVIL ENGG.) : WINTER -
2017**

SUBJECT : ELECTIVE – I : CONSTRUCTION MANAGEMENT

Day: **Wednesday**
Date: **24/01/2018**

Time: **02.30 PM TO 05.30 PM**
Max Marks. 80

W-2017-2556

N.B.

- 1) Q. No. 1 and Q. No. 5 are **COMPULSORY**. Out of remaining questions attempt **ANY TWO** questions from each section.
- 2) Figures to the right indicate **FULL** marks
- 3) Answers to both sections should be written in **SEPARATE** answer books.
- 4) Assume suitable data if necessary.

SECTION - I

- Q.1**
- a) What is CIDC? What is its role in construction sector? (05)
 - b) Discuss planning and controlling as a functions of construction management. (05)
 - c) What are the duties of construction manager? (04)
- Q.2**
- a) Define simple interest, compound interest, Annuity, sinking fund also give their formulae. (07)
 - b) What is net present value? Explain it with suitable example. (06)
- Q.3**
- a) What are the objectives of construction management? Give its applications in Civil Engineering. (07)
 - b) Explain the structure of construction industry. (06)
- Q.4**
- a) What is game theory? Explain with suitable example pure and mixed strategy. (03)
 - b) Solve the following Transportation problem by VAM (10)

To \ From	A	B	C	D	E	Supply
P	8	10	12	17	15	30
Q	15	13	18	11	9	40
R	14	20	6	10	13	60
S	13	19	7	6	12	70
Demand	40	35	35	30	38	

SECTION - II

- Q.5**
- a) What is project feasibility? Explain technical analysis. (05)
 - b) Give the salient features of child labour act. (05)
 - c) Enlist and elaborate factors affecting to site layout. (04)
- Q.6**
- a) What are the provisions made in workman's Compensation Act? (07)
 - b) Prepare a training programme for site engineer. (06)
- Q.7**
- a) Enlist and explain different types of firms in construction industry. (07)
 - b) Discuss the points to be considered in social benefits cost analysis. (06)
- Q.8**
- a) Enlist the different safety programme? What are the causes of accidents? (06)
 - b) Prepare a site layout for construction of a bridge across a river having width 250 meter. (07)