

B.Tech. Sem-VII (2007 Course) (Civil Engg.) SUMMER - 2018
SUBJECT : ELECTIVE - I : CONSTRUCTION MANAGEMENT

Day: Saturday
Date: 26-05-2018

Time: 2:30 P.M. TO 5:30 P.M.
Max Marks. 80

S-2018-2761

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) Discuss organization as a function of construction management. (05)
b) What are the application of Engineering Economics for construction industry? (04)
c) Enlist the steps followed in solving Assignment model. (05)
- Q.2** a) What are the qualities and education of construction manager? (07)
b) What is the role of construction industry in infrastructure development? (06)
- Q.3** Compare the following projects by NPV and give the suitable solution. (13)
Project A – Initial investment Rs. 1,50,000 and yearly profit after one year is Rs. 35000/- for five years.
Project B – Initial Investment Rs. 2,00,000 and yearly profit Rs. 60000 for 4 years.
Take rate of interest – 12%
- Q.4** Solve the following Assignment problem and suggest best solution for minimization. (13)

Machine	Jobs					
	P	Q	R	S	T	V
I	44	67	41	53	48	64
II	46	69	40	45	55	48
III	43	73	37	51	44	62
IV	50	65	35	50	46	63

SECTION - II

- Q.5** a) Discuss the points to be considered while preparing feasibility report for construction of canal. (05)
b) Give the necessity and applications of Arbitration Act. (05)
c) What are the safety measures used during construction of a flyover? (04)
- Q.6** a) Explain economical and financial analysis. (07)
b) What is working capital and fixed capital? (06)
- Q.7** a) Give the salient features of Maternity Leave Act? (06)
b) Prepare the training programme for mason and smith. (07)
- Q.8** a) What are the safety measures? Explain IFR & ISR. (07)
b) Prepare site layout for construction of high-rise building (06)

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