

B.Tech Sem – VI (2007 Course) (Civil Engg.) : WINTER - 2018

SUBJECT : PROJECT MANAGEMENT

Day: Saturday
Date: 17/11/2018

W-2018-2846

Time: 10.00 AM TO 01.00 PM
Max Marks. 80

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 project? Give classification of project. (05)
b) What is inventory? Give necessity of inventory. (05)
c) Draw the flow chart for updating of network. (04)

- Q.2** a) Prepare feasibility analysis report for construction of flyover at Swargate, Pune area. (10)
b) Explain line and staff organization. (03)

- Q.3** a) Draw the network from following data and find out total float and free float. (13)

Activity	1-2	1-3	1-4	2-5	2-6	3-7	4-8	5-9	7-8	6-9	8-9
Duration (Days)	5	5	0	7	5	9	4	11	6	4	7

- Q.4** a) Explain the safety stock with reference to construction industry. (06)
b) What are the objectives of Material Management? (07)

SECTION - II

- Q.5** a) What is the role of finance advisor? (05)
b) Explain ISO 9000 (04)
c) What are the applications of L.P.P.? (05)

- Q.6** a) What are the different funding methods? (06)
b) Explain in detail master budget. (07)

- Q.7** a) Use simplex method to solve L.P.P. (13)
Maximize,

$$Z = 6x_1 + 4x_2 - 2x_3$$

Subject to,

$$20x_1 + 4x_2 + 2x_3 \leq 40$$

$$6x_1 + 10x_2 \leq 20$$

$$x_1, x_2, x_3 \geq 0$$

- Q.8** a) What is total quality management? (06)
b) What is Six Sigma concept? Give its application in Civil Engineering. (07)

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