

Day: Friday
Date: 31/05/2019

Time: 02.30 PM TO 05.30 PM
Max Marks. 80

S-2019-3111

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) Answer to both the sections should be written in **SAME** Answer book.
- 4) Assume suitable data if necessary.

SECTION - I

- Q.1**
- a) Draw the PWD organization chart. (05)
 - b) Define EST, EFT, LST, LFT and Total float. (05)
 - c) What is material management? (04)
- Q.2**
- a) What is project life cycle? Describe with suitable example. (07)
 - b) What are the duties and authorities of project manager? (06)
- Q.3**
- a) What is PERT? Where it is applicable? (04)
 - b) Differentiate between PER & CPM. (05)
 - c) What is ladder network? (04)
- Q.4**
- a) What is ABC analysis? How it is applicable in construction industry? Draw a suitable graph. (08)
 - b) Discuss EOQ with its diagram. (05)

SECTION - II

- Q.5**
- a) What is budget? Give its classification. (04)
 - b) Write down the steps involved in graphical method of L.P.P. (05)
 - c) What is quality assurance? (05)
- Q.6**
- a) What is finance statement? Prepare a suitable finance statement for civil engineering construction firm. (08)
 - b) What are the different methods of financing? (05)
- Q.7**
- a) Solve the L.P.P. by graphical method
Minimize,
$$Z = 20x_1 + 30x_2$$

Subject to,
$$x_1 + 3x_2 \geq 80$$

$$2x_1 + x_2 \geq 75$$

$$x_1, x_2 \geq 0$$
- Q.8**
- a) What are the applications of TQM in construction industry? (07)
 - b) Explain role of MIS in project management. (06)

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