

**APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY****FIRST SEMESTER M.TECH DEGREE EXAMINATION****Civil Engineering****(Structural Engineering and Construction Management)****04 CE 6405- Construction Management**

Max. Marks : 60

Duration: 3 Hours

**Part-A**

Answer all questions

Each question carries 3marks

1. List two major contributions of Henry L Gantt towards scientific management. Briefly explain each of them in three to four sentences.
2. List the principles of a good organisation
3. Define the 'M', 'I' and 'S' in MIS.
4. What is a cash flow diagram?
5. What is incremental analysis?
6. What is replacement analysis?
7. What is Fulkerson's rule?
8. Write 3 differences between CPM and PERT.

(8 x 3 = 24 marks)

**Part-B**

Answer one choice in each question

Each question carries 6marks

9.
  - a) List 5 points on 'concept of scientific management according to Frederick W Taylor'. Briefly explain each of them in three to four sentences.

**Or**

- b) List 5 'elements/techniques of scientific management'. Briefly explain each of them in three to four sentences.
10.
    - a) List the 5 levels of human needs according to Maslow. Briefly explain each of them in three to four sentences.

**Or**

- b) Define 'matrix organization'. Briefly explain 4 merits and 4 demerits of matrix organization in 1 or 2 sentences each.

11.

- a) List 6 objectives of MIS. Explain the relevance of each these objectives in a to construction organization.

**Or**

- b) List 9 common reasons for resistance to MIS. Based on organizational behavior literature, briefly explain 3 positive steps that can be taken to mitigate resistance.

12.

- a) Illustrate time value of money with an example in construction industry.

**Or**

- b) What is present worth, future worth and annual equivalent methods of evaluating alternatives?

13.

- a) What do you mean by Break even analysis .Give an example to explain the concept?

**Or**

- b) Explain the construction accounting , long term and short term financing problems

14.

- a) What is the significance of resources in preparing project schedule? Give an example to demonstrate its importance

**Or**

- b) Explain the three time estimates associated with PERT.

(6 x 6 = 36 marks)