

APJ ABDUL KALAM TECHNOLOGICAL UNIVERSITY
FIRST SEMESTER M. TECH DEGREE EXAMINATION

Civil Engineering

(Structural Engineering and Construction Management)

04CE6405—Construction Management

Max. Marks : 60

Duration: 3 Hours

PART A

Answer All Questions

Each question carries 3 marks

1. Define scientific management?
2. What are the elements of scientific management?
3. Explain the purpose of an organization.
4. What is a formal organization?
5. What are the objectives of MIS?
6. Explain Cash flow diagram.
7. What is break even analysis?
8. What is resource allocation?

PART B

Each question carries 6 marks

9. What are the principles of scientific management according to F.W Taylor? Explain in detail.
OR
10. Explain the contribution of Henri Fayol in Scientific management.
11. Explain Maslow's hierarchy of needs. Explain in detail.
OR
12. What are the principles of an organisation?
13. Discuss the functions of MIS in detail.
OR
14. Describe system approach and its features.
15. Illustrate time value of money with an example.
OR
16. Explain the scope of engineering economics.
17. What are the components of working capital? List out the factors affecting working capital.
OR
18. What are the assumptions of break even analysis? Explain break even point.
19. Explain CPM and PERT methods in detail and list out the differences between the two methods.
OR
20. A project consists of 6 activities.
 - a) Draw the network diagram, identify the critical path and its duration.
 - b) What is the probability that the project will be completed in 5 days earlier than the critical path duration?
 - c) What project duration will provide 95% confidence level of completion?

(PTO)

Activity	Optimistic time (to)	Most likely time (tm)	Pessimistic time (tp)
1-2	4	10	16
1-3	3	6	9
1-4	4	7	16
2-5	5	5	5
3-5	8	11	32
4-6	4	10	16
5-6	2	5	8