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. List the principles of good organization.
- 3. What are the objectives of MIS?
- 4. Explain cash flow diagram.
- 5. What is replacement analysis?
- 6. What is capital budgeting?
- 7. Define resource levelling.
- 8. What do you mean by updating project?

PART B

Each question carries 6 marks

9. What are the principles of Scientific Management according to F W Taylor.

OR

- 10. What are the contributions of Scientific Management in construction industry? Explain its advantages and disadvantages.
- 11. Explain Maslow's hierarchy of needs.

OR

- 12. Explain the organizational set up of a large construction company.
- 13. What are the different types of Management information systems?

OR

- 14. Discuss the functions of MIS.
- 15. Illustrate time value of money with an example in construction industry.

OR

- 16. A person is planning for his retired life. He has 10 more years of service. He would like to deposit 20% of his salary which is 4000 at the end of first year and there after he wishes to deposit the amount with an annual increase of Rs 500 for the next 9 years with an interest rate of 15 %. Find the total amount at the end of 10 year of the above series. Draw the cash flow diagram of the same.
- 17. 2 mutually exclusive projects are being considered for investment. Project A1 required an initial out lay of Rs 30 lakhs with net receipts have been estimated as 9 lakhs per year for the next 5 years. The initial outlay of A2 is Rs 60 lakhs and net receipts Rs 15 lakhs per year for next 7 years. There is no salvage value assured with either of them. Using benefit cost ratio which would you choose. Assume i=10%

Project	A1	A2
Initial outlay	30 lakh	60 lakh
Net receipts	9 lakh/year	15 lakh/year
Life	5year	7 year

- 18. What are the needs of capital budgeting. Explain with an example.
- 19. What is the significance of resource in preparing project schedule? Give an example to demonstrate its importance.

OR

20. Explain the applications of network techniques.