

**IV B.Tech. II Semester Regular Examinations, April/May -2005
CONSTRUCTION MANAGEMENT AND PLANNING
(Civil Engineering)**

Time: 3 hours

Max Marks: 80

**Answer any FIVE Questions
All Questions carry equal marks**

1. What are the duties and responsibilities of a subcontractor?
2. What are the considerations for planning an ideal project office?
3. (a) What is the necessity for reporting progress of a project.
(b) What are the different methods of making progress reports?
4. (a) What do you understand by EOQ?
(b) Explain the EOQ model without Cost Information?
5. Describe some of the basic concepts on which accounting systems are based.
6. The Indian construction industry requires a comprehensive legislation for the safety and welfare of its workmen. Discuss this statement.
7. Write a detailed note on how the working capital policy of a company affects the rate of return on equity.
8. (a) What are the conditions when an employer is liable to pay compensation?
(b) What are the stipulations for an employer under the Employees' Provident Fund Act?

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1. What are the main techniques to make the construction process systematic and scientific?
2. Write short notes on:
 - (a) Insurance requirements at a construction site.
 - (b) Safety precautions
3.
 - (a) What is the necessity for reporting progress of a project.
 - (b) What are the different methods of making progress reports?
4. Explain the basic concept of resource management. Support your answer with a flow diagram and an example.
5. Describe some of the basic concepts on which accounting systems are based.
6. Explain the concept of SQC. Explain how you can construct control charts for the variables.
7.
 - (a) What is the weighted average cost of capital? Discuss with examples.
 - (b) Discuss the effects of working capital in a firm.
8.
 - (a) What is the responsibility of the contractor in connection with insurance on the site?
 - (b) What is a contract labour? What are the important facilities to be provided to the contract labour?

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1. (a) What are the different sectors of economy that contribute to the GDP in a country?
(b) What is the significance the construction sector in the GIP?
2. What are the considerations for planning an ideal project office?
3. (a) Explain PERT cost method?
(b) Why does a contractor tend to adopt Late start means?
4. Explain the basic concept of resource management. Support your answer with a flow diagram and an example.
5. Describe some of the basic concepts on which accounting systems are based.
6. (a) Explain how R- chart is constructed and where it is used?
(b) The sample ranges of a statistical sampling is presented below. Estimate the upper and lower control limits. If the range of the 8th sample is 51.12, can the process said to be out of control? Assume that a sample of 5 is taken each time to find the range.
7. What are the typical problems faced by medium and small civil contractors firms for raising finance? How are these requirements for cash handled?
8. (a) What are the basic provisions of the Employees State Insurance Act?
(b) A skilled welder gets a salary of Rs.4000/- per month. He claims to obtain benefits under the Employees State Insurance Act. What is the legal position?

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1. Explain the following contracts and the situations in which they are used. Mention their advantages and disadvantages.
 - (a) Cost plus percentage contract
 - (b) Cost plus fixed fee contract
 - (c) Lump sum contract.
2. Write short notes on:
 - (a) decentralization
 - (b) delegation of responsibility
3. A caretaker's room having a plinth area of 10 sq.m is to be constructed with load bearing walls, R.C.C. roof, internal and external plaster with two coats of paint and IPS flooring. The construction is to be completed in 45 days. Identify the activities and draw a bar chart.
4.
 - (a) What do you understand by labour productivity and site productivity?
 - (b) How do non-productive activities affect labour productivity?
5.
 - (a) What is a Balance Sheet?
 - (b) Describe the method of presenting a Profit and Loss statement and its utility.
6.
 - (a) What is quality of conformance and what are the factors which affect it?
 - (b) How is quality control carried out on site in large and small projects?
7. What do you understand by synchronization of cash flows and stochastic model of cash management?
8.
 - (a) What is the responsibility of the contractor in connection with insurance on the site?
 - (b) What is a contract labour? What are the important facilities to be provided to the contract labour?
