



# INSTITUTE OF AERONAUTICAL ENGINEERING

(Autonomous)

Dundigal, Hyderabad - 500 043

## CIVIL ENGINEERING

### ASSIGNMENT QUESTIONS

<b>Course Title</b>	<b>CONSTRUCTION MANAGEMENT</b>			
<b>Course Code</b>	<b>A80146</b>			
<b>Regulation</b>	<b>R15-JNTUH</b>			
<b>Course Structure</b>	Lectures	Tutorials	Practicals	Credits
	5	-	-	4
<b>Course Coordinator</b>	Mr Ch. Balakrishna, Assistant Professor, Civil Engineering			
<b>Team of Instructors</b>	Mr Ch. Balakrishna, Assistant Professor, Civil Engineering Mr R. Suresh kumar, Assistant Professor, Civil Engineering			

#### I. COURSE OBJECTIVES:

The objective of the teacher is to impart knowledge and abilities to the students to:

<b>I.</b>	Apply knowledge of mathematics, science, and engineering principles in construction Projects
<b>II.</b>	Apply knowledge of mathematics, science, and engineering principles in construction Projects.
<b>III.</b>	Understand the key issues for building contract procedures, management and administration.
<b>IV.</b>	Apply the techniques of project planning and management in construction projects.
<b>V.</b>	Plan and Schedule a civil engineering project by using techniques like CPM, PERT.
<b>VI.</b>	Analyze the different quality and safety issues involved in construction projects.

#### UNIT - 1 MANAGEMENT PROCESS

<b>S. No</b>	<b>Question</b>	<b>Blooms Taxonomy Level</b>	<b>Course Outcomes</b>
1	Define Management?	Remember	1
2	What is management of Drafting?	Remember	1
3	Name various management roles?	Remember	1
4	Define management theory?	Remember	1
5	Draw organization structure for a construction industry	Understand	3
6	What is the role of Human Resource Management (HRM) in Leadership Development	Understand	1
7	List various commandments of corporate social responsibility & list various forces pressuring social responsiveness	Understand	1
8	Differentiate between 'strategy' and 'strategic management'.	Understand	2
9	What is the importance of leadership in employee motivation?	Understand	2
10	What are the steps involved strategy implementation?	Understand	2

**UNIT-II**  
**CLASSIFICATION OF CONSTRUCTION PROJECTS**

<b>S. No</b>	<b>Question</b>	<b>Blooms Taxonomy Level</b>	<b>Course Outcomes</b>
1	Define critical path?	Remember	5
2	What is dummy activity?	Remember	1
3	What are the activities involved in planning?	Remember	5
4	What are types of project plans?	Understand	1
5	Define PERT?	Understand	1
6	Name Various network techniques in construction management?	Remember	3
7	What are various functions of construction management?	Remember	1
8	Write the applications of construction management?	Remember	1
9	<p>The following table lists the jobs of a project with their time estimates:</p> <ul style="list-style-type: none"> <li>i) A is the first activity of the project</li> <li>ii) B,C &amp; D follow A and can be done concurrently</li> <li>iii) E &amp; G cannot begin until C is completed and can be performed simultaneously</li> <li>iv) F is the immediate successor to activities B&amp; E.</li> <li>iv) H &amp; k run in parallel &amp; both succeed G</li> <li>v) L succeeds F &amp; H</li> <li>vi) I &amp; J are immediate successor activities to activity D.</li> <li>viii) I &amp; J are immediate successor to I &amp; K. however both M &amp; N can be performed concurrently</li> <li>ix) Activities O &amp; P are the last activities. Activity O is the immediate successor to N &amp; L. Activity P is the immediate Successor to M &amp;J .</li> </ul> <p>Draw the network &amp; number the events</p>	Remember	4
10	Explain the various stages involved in materials management. How do you overcome the problems of improper materials management?	Remember	1

**UNIT-III**  
**RESOURCE PLANNING**

<b>S. No</b>	<b>Question</b>	<b>Blooms Taxonomy Level</b>	<b>Course Outcomes</b>
1	What is the objective of scheduling?	Understand	2
2	List out advantages of scheduling.	Understand	1
3	Mention the different types of schedules?	Remember	3
4	What is resource leveling and allocation?	Understand	2
5	Write the advantages of scheduling in a construction project.	Remember	2
6	What is the objective of scheduling?	Understand	2
7	List out advantages of scheduling.	Understand	1
8	Define planning. What are the various activities involved in construction planning?	Remember	2
9	List out the various project planning techniques available In construction industry?	Understand	2
10	What is construction planning? What are the objectives of planning?	Understand	1

<b>UNIT-IV CONTRACT MANAGEMENT</b>			
<b>S. No</b>	<b>Question</b>	<b>Blooms Taxonomy Level</b>	<b>Course Outcomes</b>
1	What do you by word contract, define it?	Remember	4
2	List the different types of contracts.	Understand	3
3	Define lump sum contract?	Remember	3
4	Define Unit Price Contract?	Understand	3
5	What is a contract? Explain the classification & types of contracts?	Understand	2
6	Write the categories of contract in detail and differentiate them with respect to their characteristics.	Understand	3
7	What is contract management in construction industry?	Understand	3
8	Mention different types of contracts in detail?	Remember	2
9	What are advantages and disadvantages of contract?	Remember	2
10	Write in detail about the item rate contract and furnish advantages and disadvantages? Give at least two suitable examples?	Remember	4
11	Write in detail contract procurement strategies? Give suitable examples to each.	Understand	1
<b>UNIT-V MANAGEMENT INFORMATION SYSTEM</b>			
<b>S. No</b>	<b>Question</b>	<b>Blooms Taxonomy Level</b>	<b>Course Outcomes</b>
1	What is time rate system in making wage payment to labour?	Understand	1
2	What is piece rate system in making wage payment to labour?	Remember	3
3	Define wage?	Understand	1
4	What do you understand by term bonus?	Understand	6
5	Mention the rights and liabilities of registered trade unions?	Understand	2
6	Write about the classification of labour laws in India?	Remember	6
7	Explain about workmen's compensation act?	Understand	2
8	What are the duties of safety officer ?	Understand	1
9	Mention legal and financial aspects of accidents in construction?	Remember	6
10	Write the Human factors involved in safety?	Understand	6

**Prepared by:**

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