



All JNTU World

Get The Most Out Of Imagineering

S.No	Question	Blooms Taxonomy Level	Program Outcome
UNIT-I (MANAGEMENT PROCESS)			
PART A SHORT ANSWER QUESTIONS			
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	Define strategic management?	Remember	1
6	Which are the steps of strategic management?	Remember	1
7	Which are the characteristics of the strategic management process?	Remember	1
8	Name some decision making tools?	Remember	1
9	Define organization structure?	Remember	1

10	Define employee motivation?	Understanding	2
11	What is leadership?	Remember	1
12	Types of organization structure?	Remember	1
13	Define social responsibility?	Remember	1
14	Define CSR	Remember	1
15	List various responsibilities towards employees?	Remember	1
PART B LONG ANSWER QUESTIONS			
1	Describe different management theories??	Describe	1
2	Discuss the evaluation of HRM?	Discuss	3
3	Describe steps of decision Making	Explain	2
4	How Human Resource Management plays an important rule in employee motivation?	Discuss	3
5	Draw organization structure for a construction industry	Discuss	3
6	Role of Human Resource Management (HRM) in Leadership Development	Discuss	1
7	List various commandments of corporate social responsibility & list various forces pressuring social responsiveness	Explain	1
8	Explain the difference between 'strategy' and 'strategic management'.	Describe	2
9	Discuss various decision making techniques elaborate PERT in detail?	Give	3
10	Explain the various stages involved in materials management. How do you overcome the problems of improper materials management?	Explain	1
11	Explain the following: (1) Decision making in Project planning (2) Importance of fund flow statement.	Explain	1
PART C CRITICAL THINKING QUESTIONS			
1	List competitive advantages of corporate social responsibility	Remember	1
2	What is managing ethics and elaborate its importance	Remember	1
3	What means strategy implementation and execution?	Remember	1
4	Outline the fundamental differences between outside-in and inside-out thinking about strategic management, and their influence on strategy.	Remember	1
5	What is the best management theory in your perspective and why?	Understanding	1
6	Which decision making technique is used in civil engineering & why?	Understanding	2,3,4
7	What does organizational structure specify?	Understanding	2
8	What is the importance of employee motivation in business development?	Understanding	2
9	What is the importance of leadership in employee motivation?	Understanding	2,4
10	What the steps involved strategy implementation explain it?	Understanding	2
UNIT-II (CLASSIFICATION OF CONSTRUCTION PROJECTS)			
PART A SHORT ANSWER QUESTIONS			
1	Write a short note on construction project?	understanding	2
2	Write a short note on construction activities?	remember	1
3	Write a short note on construction schedule?	remember	1,5

4	Define critical path?	remember	1,5														
5	What is dummy activity?	remember	1														
6	What are the activities involved in planning?	remember	1,5														
7	What are types of project plans?	remember	1														
8	Define PERT?	remember	1														
9	Name Various network techniques in construction management?	remember	3,4														
10	What are various functions of construction management?	remember	1														
11	Write applications of construction management?	remember	1														
12	Write the objectives of project planning.	understanding	2														
13	Distinguish between CPM and PERT.	understanding	2														
14	Define grant chart	remember	1														
15	What are various stages in construction	understanding	2														
PART B LONG ANSWER QUESTIONS																	
1	Define Planning. Discuss about various activities involved in construction planning	Understanding	2														
2	Explain various project planning techniques available in construction industry?	Understanding	2														
3	Write the detailed procedure involved in critical path method and explain the other scheduling techniques.	Remember	3,4														
4	Explain the various stages involved in materials management. How do you overcome the problems of improper materials management?	Understanding	2														
5	<p>The following table gives the activity in construction projects</p> <table border="1" style="margin-left: 40px;"> <thead> <tr> <th>Activity</th> <th>Duration (days)</th> </tr> </thead> <tbody> <tr> <td>1-2</td> <td>20</td> </tr> <tr> <td>1-3</td> <td>25</td> </tr> <tr> <td>2-3</td> <td>10</td> </tr> <tr> <td>2-4</td> <td>12</td> </tr> <tr> <td>3-4</td> <td>6</td> </tr> <tr> <td>4-5</td> <td>10</td> </tr> </tbody> </table> <p>i) Draw Network for project ii) Find the critical path iii) Find the free float, total float & independent float for each activity</p>	Activity	Duration (days)	1-2	20	1-3	25	2-3	10	2-4	12	3-4	6	4-5	10	Analyze	2.5
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4-5	10																
6	Discuss in brief the resource allocation problem. What are methods of solving the problem	Understanding	2														
7	<p>Based on the below network diagram, identify the total paths, critical path, and float for each path.</p> <pre> graph LR Start[Start] --> A[10] Start --> D[5] Start --> G[3] A --> B[12] D --> E[7] G --> H[4] B --> C[9] E --> F[6] H --> I[6] C --> End[End] F --> End I --> End </pre>	Understanding	2,5														
8	Explain in detail about the programming methods in project planning. How do you overcome the problems of scheduling the projects?	remember	6														
9	Explain the following: (1) Supervision and its impact on productivity	remember	6														

	(2) Risk management																																										
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PART C CRITICAL THINKING QUESTIONS																																											
1	Discuss in detail about Cost & Time optimization with a suitable illustration	understanding	2																																								
2	Justify how Network Techniques in construction management is useful? Explain with an example	remember	1																																								
3	Write the detailed procedure involved in critical path method and explain the other scheduling techniques.	remember	1																																								
4	<p>The following table lists the jobs of a project with their time estimates:</p> <table border="1"> <thead> <tr> <th>Activity</th> <th>to</th> <th>tm</th> <th>tp (in Days)</th> </tr> </thead> <tbody> <tr> <td>1,2</td> <td>3</td> <td>6</td> <td>15</td> </tr> <tr> <td>1,6</td> <td>6</td> <td>5</td> <td>14</td> </tr> <tr> <td>2,3</td> <td>6</td> <td>12</td> <td>30</td> </tr> <tr> <td>2,4</td> <td>2</td> <td>5</td> <td>8</td> </tr> <tr> <td>3,5</td> <td>5</td> <td>11</td> <td>17</td> </tr> <tr> <td>4,5</td> <td>3</td> <td>6</td> <td>15</td> </tr> <tr> <td>6,7</td> <td>3</td> <td>9</td> <td>27</td> </tr> <tr> <td>5,8</td> <td>1</td> <td>4</td> <td>7</td> </tr> <tr> <td>7,8</td> <td>4</td> <td>19</td> <td>28</td> </tr> </tbody> </table> <p>Draw the PERT network and determine the expected project completion time.</p>	Activity	to	tm	tp (in Days)	1,2	3	6	15	1,6	6	5	14	2,3	6	12	30	2,4	2	5	8	3,5	5	11	17	4,5	3	6	15	6,7	3	9	27	5,8	1	4	7	7,8	4	19	28	understanding	5
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5	<p>A project consists of 16 activities having their predecessor relationships as follows:</p> <p>i) A is the first activity of the project ii) B,C & D follow A and can be done concurrently iii) E & G cannot begin until C is completed and can be performed simultaneously iv) F is the immediate successor to activities B& E. v) H & k run in parallel & both succeed G vi) L succeeds F & H vii) I & J are immediate successor activities to activity D. viii) I & J are immediate successor to I & K. however both M & N can be performed concurrently ix) Activities O & P are the last activities. Activity O is the immediate successor to N & L. Activity P is the immediate successor to M & J .</p> <p>Draw the network & number the events</p>	Analyze	3,4																																								
6	<p>Draw the network diagram for following data & find the critical path using floats. Also find the project duration</p> <table border="1"> <thead> <tr> <th>Succeeding activities</th> <th>Preceding activities</th> <th>Activities</th> <th>Duration (Days)</th> </tr> </thead> <tbody> <tr> <td>A & B</td> <td>---</td> <td>A</td> <td>10</td> </tr> <tr> <td>C</td> <td>B</td> <td>B</td> <td>5</td> </tr> </tbody> </table>	Succeeding activities	Preceding activities	Activities	Duration (Days)	A & B	---	A	10	C	B	B	5	Analyze	6																												
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D	A	C	3
E	C	D	6
F	C	E	7
G	F	F	6
H	G	G	5
I	C	H	8
J	H & I	I	4
K	E, J & D	J	6
L	H & I	K	4
M	K & L	L	3
		M	2

7

For the network shown in figure

- What are the critical path & project duration?
- If the estimated duration of activity C is revised to 8 days, will the critical path remain the same as earlier?

Evaluate

3.4.5

8

For the network shown in figure determine the slack for various events , if the scheduled date of completion of project is 36 days. Present the computations in tabular form

Evaluate

6

UNIT-III (RESOURCE PLANNING)

PART A SHORT ANSWER QUESTIONS

1	What is the objective of scheduling	Explain	2
2	List out advantages of scheduling	Describe	1

3	Discuss different types of schedules	write	3
4	Discuss resource leveling and allocation	Explain	2.3.4
5	Write the advantages of scheduling in a construction project.	Explain	2
6	What is float?	Explain	2
7	What is organizing?	Write	3
8	Define staffing?	understanding	2.3
9	Define Man power planning?	understanding	2
10	What is the purpose of material management	understanding	2
11	What do you understand by the word budget?	understanding	3
12	Explain the basic difference between budget and forecast	Explain	1

PART B LONG ANSWER QUESTIONS

1	Define planning. Discuss about the various activities involved in construction planning	Explain	2
2	Explain various project planning techniques available in construction industry?	Explain	2
3	What is construction planning? What are the objectives of planning?	Describe	1
4	What are the types of project plans? Explain in detail	Write	3
5	Explain in detail about planning of manpower & material	Write	3
6	Explain in detail about equipment & finance plan	Explain	2
7	The construction industry is facing a severe shortage of skilled man power – discuss with particular examples	Explain	2
8	The equipment necessary for the project decides the cost – Explain?	Explain	2
9	Discuss the classification of construction equipment?	Describe	1
10	How do you arrive at necessity of hiring or purchasing the equipment?	Explain	1

PART C CRITICAL THINKING QUESTIONS

1	Discuss in brief resource allocation problem, what are the methods of solving the problems	Describe	1
2	With the help of illustrative example explain resource smoothing method.	Describe	1

UNIT-IV (CONTRACT MANAGEMENT)

PART A SHORT ANSWER QUESTIONS

S.No	Question	Blooms Taxonomy Level	Program Outcome
1	What do you by word contract, define it	Illustrate	4
2	List the different types of contracts	Discuss	3
3	Define lump sum contract	Describe	3
4	Define Unit Price Contract	Describe	3

5	What is unbalanced bid	Discuss	3
6	What is contract document of the project	Defined	1
7	What is the specification in a construction project	Write	3
8	What are the different types of specifications	Defined	3
9	List the important conditions of contract	Apply	3
10	Define tender and what is tender document	Describe	3
11	Brief about the money deposition by the contractor	Describe	3
12	What is arbitration and Negotiation	Describe	3
13	What is the difference between arbitration and negotiation	Describe	3
14	What is M.Book in the construction	Describe	3
15	What is Muster roll	Describe	3
16	What is project estimation?		
PART B LONG ANSWER QUESTIONS			
1	What is a contract? Explain the classification & types of contracts	Explain	2
2	Discuss the categories of contract in detail and differentiate them with respect to their characteristics	Discuss	3
3	What is contract management in construction industry & discuss about it in detail	Discuss	3
4	What is project estimation? Explain the types of estimation & discuss about different types of estimates with advantages & disadvantages	Illustrate	4
5	What is sub-contracting? Discuss about the different types of sub-contractors & also discuss about integrated contract	analyse	4
6	What is bidding? Explain the different types of bidding	Describe	1
7	What is procurement in construction industry explain in detail	Explain	2
8	Explain about activities in contract management	Explain	2
9	Explain about types of bidding & classify the various process in contracts	Explain	2
10	Explain about types of procurement & classify the various process in contracts	Explain	2
PART C CRITICAL THINKING QUESTIONS			
1	Explain various project planning techniques available in construction industry?	Illustrate	1
2	Differentiate building contract from forms of contract	Explain	1
3	Mention and Describe different / various types of contracts in detail with suitable examples and also furnish advantages and disadvantages of each and every type of contract?	Explain	2
4	Explain in detail about the item rate contract and furnish advantages and disadvantages? Give at least two suitable examples?	Illustrate	4
5	Explain in detail contract procurement strategies? Give suitable examples to each and every strategy PPT-from B	Describe	1
6	You as a contract administrator advice a suitable type of contract to your employer considering various situations with respect of time and money and skill?	Describe	1

	Define contract document and explain in detail about contract document?		
7	Explain the different types of contracts for execution of civil engineering works. List the advantages & disadvantages of each type	Discuss	3
8	Differentiate bidding from tendering and explain in detail with suitable examples?	Differentiate	4
9	Explain in detail pre-bidding process?	Discuss	3
10	Define and explain the following in detail a. General conditions of contract b. Special conditions of contract	Describe	1
UNIT-V (MANAGEMENT INFORMATION SYSTEM)			
PART A SHORT ANSWER QUESTIONS			
S.No	Question	Blooms Taxonomy Level	Program Outcome
1	What is time rate system in making wage payment to labour?	Explain	1
2	What is piece rate system in making wage payment to labour?	Explain	3
3	Define Hazard?	Describe	3
4	What do you understand by the term insurance?	Describe	3,6
5	What is trade union?	Explain	3,6
6	Define wage?	Explain	1,6
7	What do you understand by term bonus?	Describe	2,3,6
8	What is the purpose of labour regulations?	Describe	6
9	What do you understand by the term accident?	Explain	6
10	What do you understand by the term social security?	Explain	6
PART B LONG ANSWER QUESTIONS			
1	Explain rights and liabilities of registered trade unions?	Explain	2
2	Write about the classification of labour laws in India?	Explain	2,6
3	Discuss about workmen's compensation act?	Explain	2
4	Explain the duties of safety officer ?	Describe	1
5	What is safety? How do you ensure safety in a construction site?	Evaluate	3
6	What are the elements of safety policy? Discuss?	Explain	6
7	Explain legal and financial aspects of accidents in construction?	Describe	6
8	Discuss the Human factors involved in safety?	Explain	6
9	Write about safety Hazard assessment?	understanding	6
10	Discuss the key features of any two laws relating to wages?	understanding	6

PART C CRITICAL THINKING QUESTIONS

1	Discuss the key elements of safety management systems?	Describe	6
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