

4. Differentiate between Central purchasing and Spot purchasing of materials. How vendor analysis is done ? How does it help in reduction of wastage ?

Unit III

5. What are the different types of earthmoving and earthwork equipments used in construction works ?
6. Considering the following table, draw the network and calculate most optimum cost to complete the project if overhead rate is Rs. 1,000 per day.

Act.	Pre.	Suc.	Normal	Crash	Normal	Crash
	Act	Act	Dur.	Dur.	Cost	Cost
A	–	B	4	2	5000	6000
B	A	C	6	3	7000	8000
C	B	–	6	4	4500	5000
D	–	E	5	3	4000	5000
E	D	F	5	3	5000	5700
F	E	–	7	4	6000	9000

M-G-141

4

No. of Printed Pages : 05

Roll No.

G-141

B. Tech. EXAMINATION, May 2017

(Seventh Semester)

(B. Scheme) (Re-appear Only)

CE

C-401-B

PROJECT PLANNING AND MANAGEMENT

Time : 3 Hours]

[Maximum Marks : 75

Before answering the question-paper candidates should ensure that they have been supplied to correct and complete question-paper. No complaint, in this regard, will be entertained after the examination.

Note : Attempt *Five* questions in all, selecting at least *one* question from each Unit. All questions carry equal marks. Assume any data if necessary.

(1-13/23) M-G-141

P.T.O.

Unit I

1. Explain the life-cycle process of a construction project. Explain planning, scheduling and monitoring phases of construction project.
2. Draw the network and calculate the :
 - (a) Expected time of completion of project.
 - (b) Earliest expected time for each event.
 - (c) Latest allowable occurrence time for each event
 - (d) Slack.

Activity	Predecessor	Successor	t_0	t_L	t_p
	Activity	Activity			
A	—	B,C,D	2	4	7
B	A	E	3	5	8
C	A	H	6	9	10
D	A	F	3	4	5
E	B	G	2	4	7
F	D	I	3	5	6
G	E	H,I	2	3	5
H	C,G	—	3	4	6
I	F,G	—	4	6	8

M-G-141

2

Unit II

3. Draw the network and calculate the :
 - (a) Earliest Start Time
 - (b) Earliest Finish Time
 - (c) Latest Start Time
 - (d) Latest Finish Time
 - (e) Total Float for all activities
 - (f) Time for completion of project.

Activity	Predecessor	Successor	Duration
	Activity	Activity	
A	—	B,C,D	3
B	A	E	4
C	A	H	5
D	A	F	3
E	B	G	4
F	D	I	4
G	E	H,I	5
H	C,G	—	6
I	F,G	—	7

(1-13/24) M-G-141

3

P.T.O.

Unit IV

7. Classify PWD on the basis of works executed by them. Also list the classification of contractors. Give the criterion followed for the classification followed.
8. Classify accidents on construction site. What are the precautionary measures that can be taken to prevent from accidents ?

Unit IV

7. Classify PWD on the basis of works executed by them. Also list the classification of contractors. Give the criterion followed for the classification followed.
8. Classify accidents on construction site. What are the precautionary measures that can be taken to prevent from accidents ?