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Total number of printed pages – 3

B. Tech
FEME 6302

Fifth Semester Examination – 2013

PROJECT MANAGEMENT

BRANCH : MECH, MANUTECH, MANUFACT

QUESTION CODE : C- 418

Full Marks – 70

Time : 3 Hours

*Answer Question No. 1 which is compulsory and any **five** from the rest.*

The figures in the right-hand margin indicate marks.

1. Answer the following questions : 2×10
- Name the Phases of Project Life-Cycle.
 - What are the differences between a Project and a Functional Organization?
 - Name one project in the Power Sector and another mega project in the Petrochemical sector under implementation in Odisha.
 - What is a “Milestone” in Project management terminology ? Give an example.
 - Why is the Delhi Metro Rail Project one of the most distinguished projects of the country ?
 - What is a dummy activity ?
 - What is the difference between PERT and CPM ?
 - What is a turn-key project ?
 - Define Normal time and Crash time of an activity.
 - What is the most important feasibility consideration for funding of a project by a Financial Institution ? Why ?



P.T.O.

2. (a) What qualities and skills, a Project Manager should possess for effective handling of project management tasks ? 5
- (b) What common mistakes Project managers commit resulting in time and cost overrun of projects ? 5
3. (a) What is a Project Management Information System (PMIS) ? Explain its functionality and utility. 5
- (b) Name two Computerized PMIS most widely used in Project Management. What important considerations should go into the procurement decision of a Computerized PMIS ? 5
4. A project consists of following 12 activities. The Activity time estimates are tabulated below :

Activity	Time in Weeks			
	T ₀ : Optimistic Time	T _m : Most likely Time	T _p : Pessimistic Time	
(1-2)	4	6	10	
(1-3)	3	7	12	
(1-4)	5	6	9	
(1-7)	2	4	6	
(2-4)	6	10	20	
(2-6)	3	4	7	
(2-7)	5	9	15	
(3-4)	3	7	12	
(4-5)	2	4	5	
(5-6)	1	3	6	
(3-7)	2	5	8	
(6-7)	1	2	6	

- (a) Draw the Network Diagram. 3
- (b) Determine the Critical Path. 3
- (c) Calculate event slacks and activity floats. 4

5. (a) How is the Work Breakdown Structure constructed ? What is its implication in Project execution ? 5
- (b) What is a "Project Procedures Manual" ? At what stage of the project is this document is prepared and why ? 5
6. (a) How is Technical Feasibility of a Project ascertained ? 5
- (b) How is Financial feasibility different from Economic feasibility ? 5
7. (a) What is the significance of Project audit ? Briefly explain the Project Audit Life-Cycle. 5
- (b) What are the responsibilities of the Evaluator / Auditor in project audit ? 5
8. Write short notes on any **two** : 5×2
- (a) Needs identification
- (b) Crashing of time and resource sharing
- (c) Environmental Impact Assessment
- (d) Coordination Meetings.

