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(Pages : 2)

Reg. No.....

Name.....

**B.TECH. DEGREE EXAMINATION, MAY 2012**

**Eighth Semester**

Branch : Mechanical Engineering

**PROJECT MANAGEMENT (Elective II) (M)**

(Regular/Supplementary)

Time : Three Hours

Maximum : 100 Marks

*Answer all questions.*

**Part A**

*Each question carries 4 marks.*

1. How would you determine the kinds of machinery and equipments required for a manufacturing industry ?
2. Discuss the key business considerations relevant for Project Financing decisions.
3. Describe and evaluate the various forms of project organisation.
4. What is the basic differences between PERT and CPM ?
5. What is the difference between Qualitative and Quantitative techniques of forecasting ? When is a qualitative model appropriate ?
6. Discuss the method of obtaining trend-adjusted exponential smooth end forecasts ?
7. Describe the three types of project risks.
8. What is simulation ? What are the steps involved in it ?
9. Define scheduling of a project.
10. How we can create relationship between tasks in MS Project ?

(10 × 4 = 40 marks)

**Part B**

*Each question carries 12 marks.*

11. Briefly explain the main aspects considered in a technical feasibility analysis of a project.

*Or*

12. What are the components of cost of project ? Discuss them in detail.
13. "The Traditional form of organisation is not suitable for the management of project". Comment.

*Or*

**Turn over**

14. Consider the following details of a project :—

Activity	:	A	B	C	D	E	F	G	H	I	J	K	L
Dependence	:				B, C	A	C	E	E	D, I, H	E	I, J	G
Duration (Days)	:	9	4	7	8	7	5	10	8	6	9	10	2

Draw the network and compute the critical activities and project completion time.

15. Obtain the least square regression equation of  $y$  on  $x$ . From the following data :—

$x$	:	89	86	74	65	64	63	66	67	72	79
$y$	:	92	91	84	75	73	72	71	75	78	84

Use the regression equation to forecast values of  $Y$  when (i)  $x = 70$  and (ii)  $x = 85$ .

Or

16. Calculate trend-adjusted forecast using the following data :—

Quarter	:	1	2	3	4	5	6	7	8	9	10
Demand	:	213	201	198	207	220	232	210	217	212	225

Further, given initial estimate = 208, initial trend = 0,  $\alpha = 0.2$  and  $\beta = 0.1$  ?

17. Define a simulation mode. Distinguish between deterministic and stochastic simulation models.

Or

18. What are decision trees ? How and in what type of situations are they employed for decision-making ? Explain with an example.

19. What are the advantages and limitations of MS Project software ?

Or

20. List out the steps for scheduling a project using MS project software.

(5 × 12 = 60 marks)