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Reg	istra	on No. :								
Tota	al nun	ber of printed pages – 3 B. FEME	Tech							
		Fifth Semester Regular Examination – 2014	0302							
		PROJECT MANAGEMENT								
		BRANCH: MECH								
QUESTION CODE: H 206										
Full Marks - 70										
	A	Time: 3 Hours								
	Ans	ver Question No. 1 which is compulsory and any five from the rest. The figures in the right-hand margin indicate marks.								
1.	Ans	ver the following questions:	2×10							
	(a)	What are the goals of Project Management?								
	(b)	What are the phases of Project Life-Cycle?								
	(c)	Explain various types of Project Organization.								
	(d)	What are the various types of Plans used in Project Management?								
	(e) What is the purpose of determining critical path and float of an									
	(f)	Write how expected duration and standard deviation in duration of activity is determined in PERT.	of an							
	(g)	Distinguish between direct cost and indirect cost of project.								
	(h)	What is project expediting or project crashing?								
	(i)	What is meant by Project Uncertainty?								
	(j)	What is resource leveling?								

(a) Explain the role and responsibilities of a Project Manager.

Explain the various steps involved in project formulation.

2.

(b)

5

5

3. An entrepreneur wants to setup an industry to produce 1000 units of a product per month. The expected sale price of product is Rs. 3,600 per unit. The various costs associated with the project are as under:

> Rs. 80,00,000 Cost of land Rs. 40,00,000 Cost of building Rs. 10,00,000 Furniture and Office equipments Rs. 1,60,00,000 Cost of machines Rs. 10.00,000 Electrification, piping, installation Rs. 5,00,000 per month Salary to employees Rs. 50,000 per month Fixed Electricity charges Rs. 10,000 per month Water charges Rs. 60,000 per month Miscellaneous expenditure

Raw material cost

Machining cost

Rs. 1,000 per unit

Rs. 800 per unit

It is estimated that Rs. 50,00,000 is required as working capital to keep the factory running. The rate of depreciation on building is assumed to be 5% and for other items it is 10%. The cost of capital (interest) is 15%. Evaluate economic feasibility of this project.

Time estimates of a project comprising of eight activities are given below:

Activity	Predecessor Activity	Time duration (weeks)		
		Optimistic	Most Likely	Pessimistic
Α	None	10	12	26
В	None	2	4	12
С	В	8	9	10
D	В	10	15	20
E	В	7	7.5	11
F	A, C	9	9	9
G	D	3	3.5	7
н	. E, F, G	5	5	5

Draw the network diagram. Determine the critical path and expected duration of project. What is the duration for the project to be completed with 75% probability? Value of 'z' for 75% probability is 0.68.

5.	(a)	Explain the LOB technique for planning of repetitive projects?	5	
	(b)	Discuss the purpose of project audit. Describe the method for undertaking Project Audit.	ng 5	
6.	(a)	What are the critical factors for a Project Success?	5	
	(b)	Discuss the purpose of project control. Describe the Indicators used for schedule control and cost control.	for 5	
7.	(a)	What is Gantt chart? Explain the application of Gantt Gharts.	5	
	(b)	Discuss the desirable features of a competerized information System for Project Management.	for 5	
8.	Write short notes on any two : 5×2			
	(a)	Work Breakdown Structure		
	(b)	Break Even Analysis		
	(c)	GERT.		