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M.Tech. (CSE) (Sem.-3)

COST MANAGEMENT OF ENGINEERING PROJECTS

Subject Code : MTOE-304-18

M.Code : 76515

Date of Examination : 24-12-22

Time : 3 Hrs.

Max. Marks : 60

INSTRUCTIONS TO CANDIDATES :

1. Attempt any FIVE questions out of EIGHT questions.

2.Each question carries TWELVE marks.

1. Name and Explain different types of costs involved in decision making?
2. Explain in detail various stages of project execution?
3.
 - a) Explain in detail mechanical and process project commissioning?
 - b) Write a note on project team?
4.
 - a) Distinguish between marginal and absorption costing?
 - b) Explain in detail Break-Even Analysis?
5. Explain any three:
 - a) MRP
 - b) JIT
 - c) ERP
 - d) TQM
6.
 - a) Explain different types of Budgets.

b) Solve the transportation problem:

(Cost in Rs. per unit)
Destinations.

Origins	A	B	C	Available capacity	Row number u_i
X	2	1	2	20	
Y	3	4	1	40	
Requirement	20	15	25	60	
Column element v_j					

7. a) Solve using Big M

$$\text{Minimise } Z = 4a + 2b$$

$$3a + 1b \geq 27; \quad -1a - 1b \leq -21; \quad 1a + 2b \geq 30;$$

and both a and b are ≥ 0 .

b) Write a detailed note on Budgetary control?

8. Steps involved in executing an order for a large engine generator set are given below in a jumbled manner. Arrange them in a logical sequence, draw a PERT network and find the expected execution time period.

Activities (not in logical order)	Time in weeks		
	t_0	t_L	t_p
Order and receive engine	1	2	3
Prepare assembly drawings	1	1	1
Receive and study order	1	2	3
Apply and receive import license for generator	3	5	7
Order and receive generator	2	3	5
Study enquiry for engine generator set	1	2	3
Fabricate switch board	2	3	5
Import engine	1	1	1
Assemble engine generator	1	2	3
Submit quotation with drawing and full	1	2	3
Prepare base and completing	2	3	4
Import generator	1	1	1
Order and receive meters, switchgears for switch board	2	3	4
Text assembly	1	1	1

NOTE : Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.