Seat No:	Enrollment No:
Deat 110:	

PARUL UNIVERSITY FACULTY OF ENGINEERING & TECHNOLOGY

Diploma Engineering, Mid semester Examination

Semester: 6th
Subject Code: 03609355
Subject Name: Estimating Costing
Total Marks: 40

Instructions:

- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.
- 4. English version is considered to be Authentic.

Q.1	Answer any six out of Ten. (2 Marks Each)	(12)	Co/Po Name	Blooms Taxonomy Words
	1. Define Estimating			Knowledge
	2. Describe Depreciation			Understand
	3. Define Costing			Knowledge
	4. Define Obsolescence			Knowledge
	5. Define needs of Estimating			Knowledge
	6. Write down benefits of costing and estimating.			Apply
	7. Write cost element of Arc welding.			Create
	8. Express different elements of cost.			Create
	9. What is Overhead cost?			Create
	10. Enlist cost elements in Gas cutting.			Knowledge
Q.2	A) Describe method of calculating Overhead allocation and explain any one	(03)		Understand
	OR			
	A) Describe estimating and state good quality of estimator at least seven.	(03)		Understand
	B) Evaluate total profit and safety margin when total production is 18,000 units. The fixed cost of a company is Rs. 8,00,000. Selling price of unit is Rs. 500 and variable cost of unit is Rs. 300.	(03)		Evaluate
	OR B) Evaluate profit of manufacturer. The market price of a machine is Rs.	(03)		Evaluate
	90,000 and 20% discount is given to distributor. If material cost, labor cost & factory over heads are in the ratio of 2:1:3 & factory over heads is Rs. 18,000, office over heads are 5% of prime cost & selling over heads are 10% of factory cost.	(03)		Evaluate
	C) Evaluate the rate of depreciation/year by straight line & sinking fund method. A machine was purchased at Rs. 3, 00,000 the transportation and installation charges were Rs. 4,000 & 6,000 respectively & useful life is 20 years. The scrape value was estimated Rs. 40,000. Rate of interest is 18%.	(04)		Evaluate
	OR			
	C) Write name of different method of calculating depreciation and explain any one.	(04)		Create
	D) Differentiate estimating and costing.	(04)		Analyze
	A) The prime cost of 600 laptop bags is 2,40,000 Rs. Factory overhead	(03)		Create
	are 40% of prime cost, Administrative overheads are 20% of FC. For 30% profit, Prepare selling price of one laptop bag.			
	OR			
	A) Explain importance of BEP(Break Even Point) in industry.	(03)		Create
	B) Four plates each of $1000 \times 500 \times 5$ mm are to be gas cut from a M.S. plate of size $2000 \times 1000 \times 5$ mm find the cutting cost from the followings.1. O2 consumption = 5 m3/hr. 2. C2H2 consumption =2	(03)		Analyze

m3/hr.3. Cutting speed = 12 m/hr. 4. Cost of $O2 = 30$ Rs. /m3.5. Cost of		
C2H2 = 100 Rs. / m3. 6. Labor = $40 Rs./hr.$		
OR		
B) Fixed cost in a factory is Rs 10,000 per year, the variable costs are	(03)	Evaluate
2.00 Rs per unit and the selling price is Rs 4.00 per unit, Calculate		
Breakeven point.		
C) A lathe machine is purchased at a price of Rs.60,000 has its useful life	(04)	Analyze
of 15 years. Its scrap value is Rs.10,000. Calculate the depreciation per		
year by sinking fund method. Rate of interest for depreciation fund is 12		
percent.		
OR		
C) Two 1 meter long M.S. plate of 1 cm thickness are to be welded by a	(04)	Create
lap joint with 6mm electrode. Calculate the cost of welding. Consider		
current used = 250 Amp., voltage = 30 volts, welding speed = 10 m/hr,		
electrode used = 0.1 kg/m of welding, labour charges = Rs. 5/hr, power		
charges = Rs. 10/kW h, cost of electrode = Rs. 40 / Kg, Efficiency of		
machine = 60 %		
D) Explain procedure of cost estimation in Arc welding.	(04)	Understan