

**Sample Question Paper**  
**Scheme – I**

**Programme Name** : Production Engineering  
**Programme code** : PG  
**Semester** : VI Sem  
**Course Title** : Estimation and Costing  
**Marks** : 70

22662

**Time: 3Hrs.**

**Instructions:**

- (1) All questions are compulsory.
- (2) Illustrate your answers with neat sketches wherever necessary.
- (3) Figures to the right indicate full marks.
- (4) Assume suitable data if necessary.
- (5) Preferably, write the answers in sequential order.

**Q.1) Attempt any FIVE of the following.**

**(10 Marks)**

- a) Define estimating.
- b) State the advantages of standard cost.
- c) Define price.
- d) Differentiate between fixed cost and variable cost.
- e) Differentiate between depreciation and obsolescence.
- f) State objectives of Value engineering.
- g) State payback period.

**Q.2) Attempt any THREE of the following.**

**(12 Marks)**

- a) Describe various methods of costing.
- b) List the aim of estimating.
- c) State the assumptions of breakeven analysis.
- d) Fixed cost in a factory is Rs.10, 000.0 per year, the variable cost are Rs.2.0 per unit and the selling price is Rs.4.0 per unit, calculate breakeven point.
- e) "Value engineering is a powerful tool for cost reduction" Justify.

**Q.3) Attempt any THREE of the following.**

**(12 Marks)**

- a) What do you mean by 'cost control'? Explain the various steps involved in the process of cost control.
- b) State the methods of calculating depreciation and explain any two of them.
- c) Compute total time taken to turn a 100 mm long 25 mm diameter M.S. rod to a diameter of 23 mm in a single cut. Assume cutting speed to be 25 m/min, feed to be 0.1 mm/rev and the mounting time in self-centering three jaw chuck to 40 sec. Neglect time taken for setting up tool etc.
- d) In a certain Electro-chemical dissolution process of iron, calculate the MRR for following data: Supply voltage – 18 V DC, Current – 5000 A, Atomic weight – 56, Valency – 2, Density of iron – 7.87 g/cm<sup>3</sup>. Assume tool-work gap of 0.5 mm and 100 % current efficiency for given electrolyte.

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**J Elliott**



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