

NETTUR TECHNICAL TRAINING FOUNDATION

DIPLOMA IN TOOL ENGINEERING & DIGITAL MANUFACTURING-CP01

VI SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-MAY 2023

Subject: Estimation & Costing
Subject Code: CP01603T

Total Time: 2 Hr.
Total Marks: 50

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING

2*8=16

- 1.1 Classify the sources of errors in estimation with example
- 1.2 Compare Design Cost and Drafting Cost
- 1.3 What is meant by depreciation?
- 1.4 Write the formula to calculate machine hour rate.
- 1.5 Define Basic Die
- 1.6 Write down the typical allowances for Basic Tool
- 1.7 What is meant by design charges?
- 1.8 Define Amortization cost
- 1.9 Write down the types of miscellaneous allowances
- 1.10 Who is an Estimator in an industry?

2.0 ANSWER ANY SIX OF THE FOLLOWING

3*6=18

- 2.1 Compare the effects of over and under estimation
- 2.2 Classify different time allowances.
- 2.3 List down the factors to be consider for calculating the machine hour rate
- 2.4 Compare Rough and Cost center method of estimation
- 2.5 Find the space cost of the machine which occupies 10 Sq. meter and further uses 15% of machine area, Area of the building is 400 Sq. meter with rental at ₹ 18000 / p.m
- 2.6 Briefly explain about estimation of Injection mould
- 2.7 Correlate between Prime cost and Factory cost
- 2.8 Classify the elements of costing

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3.0 ANSWER ANY FOUR OF THE FOLLOWING

4*4=16

3.1 Describe the list of qualities an estimator should possess.

3.2 Differentiate between estimation and costing

3.3 Compare direct and indirect labor with examples

3.4 Find the machine hour rate for a lathe machine with the following details.

Cost of the machine = Rs. 1, 17,500 /-

Installation & Erection charges = Rs. 2,500 /-

Energy charges = Rs. 4,000 /-

Space cost = Rs. 6,800 /-

Maintenance cost = Rs. 5,000 /-

Bank interest = 15%

Assume life of the machine = 10 year

3.5 List out the 13 cost centres considered during injection mould estimation.

3.6 Illustrate the relationship between the various components of cost and the process of computing the selling price of a product with the help of a step diagram.