

**Reg. No. :**

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**Question Paper Code: 31787**

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2017

Elective

Mechanical Engineering

01UME910 - PROCESS PLANNING AND COST ESTIMATION

(Regulation 2013)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 2 = 20 Marks)

1. What is meant by Work Study?
2. Write the Techniques of Work Measurement.
3. What are the factors affect the Process Planning?
4. What are the benefits of CAPP?
5. Define Cost Estimation.
6. Differentiate Fixed Costs and Variable Costs.
7. What are the Elements of Cost?
8. Define Selling Price of a Component.
9. State some examples for Direct Labour.
10. State the different methods of on-cost allocation.

PART - B (5 x 16 = 80 Marks)

11. (a) Briefly explain the various techniques of work measurement.

(16)

Or

(b) What is Ergonomics? Who is an Ergonomist? What special skills does he require and how do you think these skills can be acquired. (16)

12. (a) Explain the two approaches commonly used in CAPP system and bringing out their advantages and limitations. (16)

Or

(b) List the steps involved in process planning and brief. (16)

13. (a) Why costing is essential for industrial control. (16)

Or

(b) Explain the various types of elements of cost. (16)

14. (a) Describe the data requirements and sources of information for cost estimation. (16)

Or

(b) Briefly explain the various types of estimate. (16)

15. (a) Explain the cost of the product with ladder diagram. (16)

Or

(b) What are the various data's requirements and sources of information for cost estimation. (16)

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