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Question Paper Code: 39076

B.E. / B.Tech. DEGREE EXAMINATION, NOV 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. Define the term Ergonomics.
2. Write the Techniques of Work Measurement.
3. Mention the factors influencing in process selection.
4. What are the benefits of CAPP?
5. State the objectives of cost estimation.
6. Differentiate Fixed Costs and Variable Costs.
7. What are the Elements of Cost?
8. State the different types of allowances.
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) Describe the ergonomics principles applied to instrument design and control with example. (16)

12. (a) Discuss about the material selection parameters in detail. (16)

Or

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

13. (a) Explain the components of cost estimation or job estimation. (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) Segregate the fixed cost and the variable cost of running a motor car for one year. (16)

Or

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