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Question Paper Code : 21545

B.E./B.Tech. DEGREE EXAMINATION, MAY/JUNE 2013.

Seventh Semester

Mechanical Engineering

ME 2027/ ME 701 / GE 1452 – PROCESS PLANNING AND COST ESTIMATION

(Common to Production Engineering)

(Regulation 2008)

(Common to PTME 2027 – Process Planning and Cost Estimation for
B.E (Part-Time) Sixth Semester – Mechanical Engineering – Regulation 2009)

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

PART A — (10 × 2 = 20 marks)

1. What is SIMO chart?
2. Define 'Rating'.
3. List the information requires for process planning.
4. What are the two approaches to process planning?
5. Define costing.
6. What is meant by direct material? Give an Example.
7. Mention any two functions of cost estimation.
8. What do you meant by a realistic estimate?
9. What is meant by direct labour cost?
10. What is fatigue allowance?

PART B — (5 × 16 = 80 marks)

11. (a) (i) What steps are followed for doing a method study of job process? (8)
(ii) Write procedure of time study. (8)

Or

- (b) (i) What is the purpose of work measurement? Enumerate its uses. (8)
(ii) Discuss the tools are techniques for work measurement. (8)

12. (a) Explain the technological frame work of process planning by using a block diagram. (16)

Or

- (b) (i) Write the process planning procedure. (8)
(ii) What are the factors to be considered in machine selection. (8)

13. (a) Discuss the various methods of costing. (16)

Or

- (b) Name the various elements of cost. Explain each element in detail. (16)

14. (a) What are the components of a job estimate? Explain. (16)

Or

- (b) (i) What are the types of estimator. (8)
(ii) Differentiate between estimating and costing. (8 + 8)

15. (a) Explain the various time allowances which should be considered for calculating labour cost. (16)

Or

- (b) Explain the procedure followed for estimating the cost of an industrial product. (16)