AU – 2850

Seventh Semester B. E. (Mechanical Engineering) Examination

INDUSTRIAL MANAGEMENT AND COSTING

Paper – 7 ME 03

(USC – 10872)

P. Pages : 4

Time : Three Hours] [Max. Marks : 80

Note : (1) Answer **Three** questions from Section A and **Three** questions from Section B.
(2) Due credit will be given to neatness and adequate dimensions.
(3) Assume suitable data wherever necessary.
(4) Illustrate your answer wherever necessary with the help of neat sketches.
(5) Use pen of Blue / Black ink / refill only for writing the answer book.

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SECTION A

1. (a) Explain the importance of communication and briefly explain the barriers in it. 7

(b) Describe the principles of scientific management stated by F. W. Taylor. 7

OR

2. (a) What are the essential features of good organisation structure ? Explain Line organization with its merits and demerits. 7

(b) State the Fayol's principles of general management. 7

3. (a) What is Sales promotion ? How does it differ from advertisement ? 6

(b) Enumerate the different steps involved in marketing research. 7

OR

4. (a) What is marketing mix ? What are different elements of marketing mix ? 6

(b) Discuss the various phases of product life cycle. 7

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5. (a) Describe briefly the various functions of stores. 6

(b) Explain the concept of workers participation in management. State its objectives. 7

OR

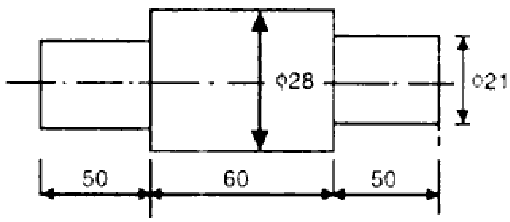
6. (a) Enumerate the different methods of purchasing and explain each of them in brief. 7

(b) Discuss the role of collective bargaining. Why is it not making headway in India ? 6

SECTION B

7. (a) Explain the procedure of estimation. 5

(b) Find the time required to turn 35 mm diameter bar to dimensions shown in Fig. Cutting speed is 15·4 m/min and feed 1 mm/revolution. All cuts are 3·5 mm deep.



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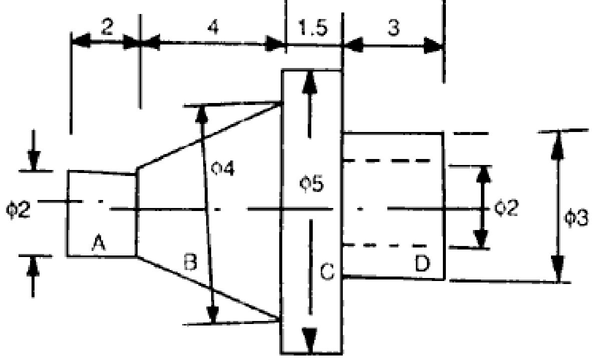
OR

8. (a) Explain the various time considerations while estimating the machining time. 5

(b) Estimate the volume of material required for manufacturing 100 pieces of shaft shown in Fig. The shafts are made up of M.S. of density 8 gm/cm^3 for such shaft.



8

9. (a) What do you understand by normal and abnormal waste of material during the process of manufacture ? 5

(b) Calculate prime cost, factory cost, production cost, total cost, selling Price/item from the given data :

(i) Raw material Rs. 50,000.

(ii) Direct wages Rs. 14,000.

(iii) Direct Expenses Rs. 1,000.

(iv) Factory overhead Rs. 9,750.

(v) Office Expenses Rs. 6,500.

(vi) Selling and distribution expenses Rs. 3,250.

(vii) Number of items produced 650.

(viii) Net profit/item is 10% of the total cost. 9

OR

10. (a) Define cost and costing. What are the components of costs ? 5

(b) A product passes through two distinct processes A and B and thereafter to finished stock, the output of A process passes to B and that of B to finished product from the following information you are required to prepare process accounts.

	Process A	Process B
Material consumed (Rs)	12,000	6,000
Direct Labour (Rs)	14,000	8,000
Manufacturing Exp. (Rs)	4,000	4,000
Input in process A (units)	10,000	
Input in process A (value) (Rs)	10,000	
Output units	9,400	8,300
Normal wastage (input)	5%	10%
Value of normal wastage (per 100 units)	8 (Rs)	10 (Rs)

9

11. (a) "Finance is a force that both stimulates and restraints business actions." Discuss. 6

(b) A lathe is purchased for Rs. 8,000 and the assumed life is 10 years and scrap value Rs. 2,000. If the depreciation is charged by Diminishing Balance method, calculate the percentage by which value of the lathe is reducing every year and depreciation fund after 2 years. 7

OR

12. (a) What are various methods for accounting depreciation ?
Explain any one of them using suitable example. 5

(b) Prepare the Balance sheet for ABC Company whose amount in Rs. (lakh) :

(i) Plant and machine – Rs. 180.

(ii) Share Capital – Rs. 250.

(iii) Insurance – Rs. 86.

(iv) Stationary and Furniture – Rs. 10.

(v) Advance Payment Received – Rs. 70

(vi) Loan – Rs. 150.

(vii) Transport Vehicle – Rs. 23.

(viii) Cash in hand – Rs. 250.

(ix) Employers wages – Rs. 20.

(x) Inventory of raw material – Rs. 70.

(xi) Bonus Payable – Rs. 40.

(xii) Electricity bill – Rs. 30.

(xiii) Vat Payable – Rs. 40.

(xiv) Cash in Bank – Rs. 153. 8

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