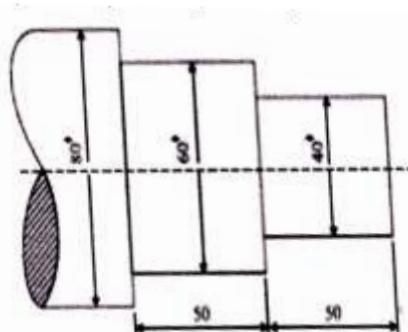


- Q.17 Fixed cost of factory is Rs. 5,000/- . The variable cost per unit is Rs. 20/- . The selling price of product is Rs.30/- . Find the break even point of the production.
- Q.18 What do you understand by fixed and variable overheads? Give suitable examples.

SECTION-D

Note: Long answer type questions. Attempt any one questions out of two questions. $(1 \times 10 = 10)$

- Q.19 What is an ABC analysis? Describe it in detail.
- Q.20 Calculate the machining time to turn the dimensions shown in figure, starting from a M.S. bar off 80mm diameter. The cutting speed with HSS tool is 60 meters per minute and feed is 0.70 mm/rev., depth of cut is 2.5 mm per pass.



All dimensions are in mm

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4th Year / Advance Diploma in Tool & Die Making

Subject:- Production Planning and Cost Estimation

Time : 3Hrs.

M.M. : 50

SECTION-A

Note: Multiple choice questions. All questions are compulsory $(5 \times 1 = 5)$

- Q.1 Productivity can be increased by
- By increasing the output from the same input
 - By reducing the input for the same output
 - Both a and b
 - None of the above
- Q.2 Choose the incorrect statement regarding the need for quality.
- Markets have become more competitive
 - Quality provides sustained performance
 - Quality provides customer satisfaction
 - It is the trend nowadays to introduce quality

Q.3 The routing function in a production system design is concerned with

- a) Manpower utilization
 - b) Quality assurance of the product
 - c) Machine utilization
 - d) Optimizing material flow through the plant

Q.4 Which of the following condition is correct at the break-even point?

- a) Total cost is more than the sales revenue
 - b) Fixed cost is equal to variable cost
 - c) Total cost is equal to sales revenue
 - d) Total cost is less than the sales revenue

Q.5 The payment made to the following is a cost of indirect labor.

- a) Welder
 - b) Time keeper
 - c) Moulder
 - d) Turner

SECTION-B

Note: Objective/Completion type questions. All questions are compulsory. (5x1=5)

Q.6 Production System

Q.7 Machine Capacity

Q.8 Critical Ratio Scheduling

Q.9 Depreciation

Q.10 Job Estimation

SECTION-C

Note: Short answer type questions. Attempt any six questions out of eight questions. (6x5=30)

Q.11 Distinguish between job production and batch production.

Q.12 Write the various methods of productivity improvement. Explain any two methods.

Q.13 Explain in detail master schedule.

Q.14 What are the importance's of route sheet? How they are helpful in process planning?

Q.15 What is machine loading? How machine-loading chart is prepared?

Q.16 Explain sinking fund method of depreciation.