

Reg. No. :

--	--	--	--	--	--	--	--	--	--

Question Paper Code: 59413

B.E. / B.Tech. DEGREE EXAMINATION, SEP 2020

Elective

Mechanical Engineering

15UME913 - PROCESS PLANNING AND COST ESTIMATION

(Regulation 2015)

Duration: One hour

Maximum: 30 Marks

PART A - (6 x 1 = 6 Marks)

(Answer any Six of the following Questions)

1. Basic tool in work study is CO1- R
(a) Graph paper (b) Process chart
(c) Planning chart (d) Stop watch
2. Work measurement method of cost estimation is also called CO1- R
(a) Price Engineering method (b) Industrial Engineering method
(c) Measuring engineering method (d) Unit engineering method
3. In designing an efficient workspace, the left hand will cover CO1- U
(a) Maximum working area (b) Normal working area
(c) Minimal working area (d) Any of the above
4. Which of the following is not a part of Five M's? CO2- R
(a) Material (b) Machine (c) Motion (d) Method
5. Process selection is primarily considered during: CO2- R
(a) Planning (b) Organizing (c) Leading (d) Controlling
6. For small scale industry, the fixed cost per month is Rs.5000. The variable cost per product is Rs.20 and sales price is Rs.30 per piece. The break even production per month will be CO3- R
(a) 300 (b) 460 (c) 500 (d) 1000
7. Advantages of condition monitoring CO3- R
(a) Links between cause and effect (b) Systems with sufficient response

- (c) Benefits out weighing cost (d) All the above
8. Relationship based on unrelated level of activity and past data of cost is measured with the help of CO3- R
- (a) Cost estimation (b) Price estimation (c) Unit estimation (d) Production estimation
9. Which of the following costs is treated as indirect labor? CO4- R
- (a) Idle time (b) Overtime premium
- (c) Fringe benefits (d) All of the above
10. Cost estimation include(s) the following expenditure(s) CO4- R
- (a) Pattern making (b) Tool making (c) Selling expenses (d) All of the above

PART – B (3 x 8 = 24 Marks)

(Answer any Three of the following Questions)

11. Briefly explain the various techniques of work measurement. CO1- U (8)
12. Explain retrieval type CAPP system with a block diagram. CO2- U (8)
13. Explain the type of cost estimates that are used in estimating. CO3-U (8)
14. Describe the data requirements and sources of information for cost estimation. CO4-U (8)
15. What are the different methods of cost estimating? Explain. CO4-U (8)