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Question Paper Code: 98764

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2024

One credit course

Mechanical Engineering

19UME864 - WORK STUDY

(Regulation 2019)

Duration: 1.30 hours

Maximum: 30 Marks

Answer ALL Questions

PART A - (10x 1 = 10 Marks)

1. A work study application is/are_____ CO1-U
(a) Industries (b) Design (c) Material Handling (d) All the above
2. _____ are used to describe the basic elements of movements or functional hand motions of the work cycle. CO1-U
(a) Work Study (b) Motion Study (c) Time Study (d) Therbligs
3. _____ Chart is generally used for micro motion analysis of short cycle repetitive jobs, High order skill jobs, and finds applications in jobs like component assembly, packaging, repetitive use of jigs and fixtures, inspection, etc. CO1-U
(a) Flow Diagram (b) Process chart (c) S.I.M.O chart (d) Therbligs
4. Process layout is also called as..... CO2-U
(a) Functional Layout (b) Production layout
(c) Plant Layout (d) All of the above
5. _____ are added to the normal time in order to arrive at standard time. CO1-U
(a) Performance Rating (b) Work sampling (c) Allowance (d) Motion study
6. The costs which decide the locational economy are those of..... CO2-U
(a) Land (b) Building/Rent (c) Labour (d) All of the above

7. The objectives of the study of..... is to optimize the integration of man and machine in Order to increase work rate and accuracy . CO1-U
 (a) Ergonomics (b) Motion economy (c) S.I.M.O chart (d) Therbligs
8. An Alternate between the Urban and Rural areas is the which being a compromise between the two is probably the most suitable. It possesses the good points of both Urban and Rural locations. CO2-U
 (a) Urban Site (b) Suburban site (c) Metro Site (d) All of the above
9. Good plant layout objectives is/are_____ CO2-U
 (a) Material handling and transportation is minimized and efficiently controlled.
 (b) Work stations are designed suitably and properly.
 (c) The movements made by the workers are minimized
 (d) All the above
10. Factors affecting plant layout is/are_____ CO2-U
 (a) The components/products to be manufactured.
 (b) The volume of production and hence the volume of raw material and in process inventory to be handled.
 (c) The operation needed to be done on each product.
 (d) All the above.

PART – B (1 x 20= 20 Marks)

11. (a) Explain in details of Process charts symbols and Flow process charts with suitable example. CO1-R (20)
- Or
- (b) Explain the Advantages and Disadvantages of Selecting the plant site in rural and urban locations. CO2-R (20)