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B.Tech. (Ind. Engg. & Mgt. (Spl. in TQM))(PT) (Sem.-4)

WORK STUDY AND ERGONOMICS

Subject Code : IEM-401

M.Code : 61016

Time : 3 Hrs.

Max. Marks : 40

INSTRUCTIONS TO CANDIDATES :

1. Attempt All EIGHT questions from SECTION-A carrying TWO marks each.
2. Attempt any SIX questions out of EIGHT from SECTION-B carrying FOUR marks each.

SECTION-A

1. Write briefly :

- a. Discuss in brief various factors affecting productivity.
- b. Discuss various steps of method study taking suitable example.
- c. Discuss various factors influencing work study.
- d. Discuss what is Micro-motion study.
- e. Give the advantages of work measurement.
- f. List down the posture and body mechanics principles used in Man-machine systems.
- g. Discuss the role of shape and colour in product design considerations.
- h. Discuss the effects of bad lighting at work place of workers.

SECTION-B

2. Discuss various guidelines for choosing proper lighting for work environment in industry.
3. Discuss the applications of motion economy principles in work place design?

4. Discuss how productivity in an industry can be improved by reducing work content factor?
5. Write a short note on various types of Man-machine systems of ergonomics.
6. Discuss the basic procedure of work study using suitable example.
7. Discuss the guidelines to be followed while designing the system suitable for working of seated and standing workers.
8. What is predetermined time system? And discuss its various types.
9. Discuss in brief various charts used as recording techniques for work place operations in industries.

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