

TM244685C

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024

2022 ADMISSIONS REGULAR

SEMESTER IV - R.M.I.D

RM4E01TM20 - Applied Ergonomics

Time : 3 Hours

Maximum Weight : 30

Part A**I. Answer any Eight questions. Each question carries 1 weight****(8x1=8)**

1. What is meant by ergonomics and its origin?
2. What is meant by static muscular effort?
3. Define fatigue.
4. What is posture?
5. Expand AWL.
6. List out a few anthropometric measurements used in ergonomics.
7. Enlist any two artificial lighting sources.
8. What is meant by cross ventilation?
9. Enlist a few ergonomic factors while designing a workplace motion.
10. List out any four kitchen types.

Part B**II. Answer any Six questions. Each question carries 2 weight****(6x2=12)**

11. Explain the biochemistry of muscular muscle work.
12. Comment on the wrong postures in the muscular-skeletal system.
13. Why body posture analysis is important in ergonomic studies?
14. Elaborate on the human body as a system of levers.
15. Discuss the interrelatedness of job demand and fitness compatibility.
16. Discuss the role of air quality in the work environment.
17. Write on ill effects of vibration on body parts during work.
18. Discuss in detail the various equipment in kitchen and its design consideration.

Part C**III. Answer any Two questions. Each question carries 5 weight****(2x5=10)**

19. Explain the impact of ergonomics on workplace design.
20. Elaborate on work-related MSD, its causes, and prevention.
21. Discuss in detail the impact of poor nutrition on the functioning of human body mechanics.
22. Comment on vibrations and their effect on body parts during work with body parts.

