

Exam Date & Time: 09-Dec-2023 (02:30 PM - 05:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

VII SEMESTER B.TECH END SEMESTER EXAMINATIONS, DEC 2023

Ergonomics [MME 4060]

Marks: 50

Duration: 180 mins.

A

Answer all the questions.

Instructions to Candidates:

Missing data may be suitably assumed

- 1) Name the elements of Man-Machine system. (2)
 - A)
 - B) Explain the types of ergonomic problems. (3)
 - C) What are the characteristics of system? (5)
- 2) Explain the concepts of information. (2)
 - A)
 - B) What do you mean by long term and working memory? (3)
 - C) What do you mean by visual capabilities? explain any three visual capabilities. (5)
- 3) How do you design a qualitative display? (2)
 - A)
 - B) Identify diverse set of auditory displays media. (3)
 - C) Provide optimal design features for pedal and keyboard design. (5)
- 4) What is Control response ratio? Mention its scope and importance. (2)
 - A)
 - B) Explain the relationship between work surface and work surface height? (3)
 - C) Explain the principles of seat design (5)
- 5) What is the effect of noise on performance? (2)
 - A)
 - B) Explain how stress and performance are related? (3)
 - C) What are the factor effecting productivity? What is the reason for low productivity. (5)

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