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## M.Tech (CAD/CAM) (E-II) (Sem.-2) WORK ENGINEERING AND ERGONOMICS

Subject Code: ME-515 M.Code: 23514

Time: 3 Hrs. Max. Marks: 100

## **INSTRUCTIONS TO CANDIDATES:**

- 1. Attempt any FIVE questions out of EIGHT questions.
- 2. Each question carries TWENTY marks.
- 1. Define Productivity. What productivity measure should be adopted as a basis of optimizing the working of an organization? Discuss.
- 2. What are the factors affecting work measurement? Discuss. Also highlight the merits and demerits of work measurement with examples.
- 3. What do you understand by allowances in the context of time study? What are various allowances and how are they determined? Discuss.
- 4. What is meant by anthropometry? How anthropometry data base is useful? Discuss with its limitations.
- 5. Why Identification of control is so important? Discuss different type of control devices and the function which they perform.
- 6. Discuss the factors on which vibration depends, types of vibration, their affects and methods of reducing those vibrations.
- 7. What do you understand by metabolism? What effect does the physical work produces on the human body? How can these effects be measured? Discuss.
- 8. Write notes on:
  - a) Work sampling.
  - b) Hasley Plan.

NOTE: Disclosure of Identity by writing Mobile No. or Making of passing request on any page of Answer Sheet will lead to UMC against the Student.

**1** M-23514 (S9)-1698