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Total No. of Pages : 01

Total No. of Questions : 08

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.**

