

Roll No.

22606

M. Tech. 1st Semester (ME)

CBCS Scheme

Examination – January, 2023
METHOD ENGINEERING & ERGONOMICS

Paper : MTME21D2

Time : Three Hours]

[Maximum Marks : 100

Before answering the questions, candidates should ensure that they have been supplied the correct and complete question paper. No complaint in this regard, will be entertained after examination.

Note : Attempt five questions in all, selecting one question from each Unit. Question No. 1 is compulsory. All questions carry equal marks.

1. Write short notes on following : 20
- (i) Work sampling
 - (ii) Design of work place
 - (iii) Layout of panels
 - (iv) Heat humidity

UNIT – I

2. Explain productivity and discuss measurement of productivity. 20

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3. Discuss the steps for the work measurement. 20

UNIT – II

4. Discuss the criteria for control design and also explain hand control and foot controls. 20
5. Explain the principle for carrying out the physical activities. 20

UNIT – III

6. Describe the procedure for measuring the thermal environment. 20
7. Discuss the design recommendation for quantitative displays. 20

UNIT – IV

8. Describe the relationship between controls and display instruments. 20
9. Write short notes on the following : 20
- (a) Speed Interference
 - (b) Permanent Threshold
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