2112E049

BACHELOR OF VOCATION

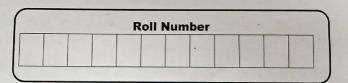
Automotive Component Manufacturing Subject: Work Study and Ergonomics Subject Code: LBME-306 Semester: Sixth

December 2021 Theory (External): 70 Marks Time: 03 Hours

Instructions to the Students

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- This Question paper consists of two Sections. All sections are compulsory.
- 2. Section A comprises 10 questions of objective type in nature. All questions are compulsory. Each question carries 2 marks.
- 3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 10 marks.
- 4. Read the questions carefully and write the answers in the answer sheets provided.
- 5. Do not write anything on the question paper.
- 6. Wherever necessary, the diagram drawn should be neat and properly labelled



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SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS) (10x2=20 Marks)

- A. Define the role of management in work study
- B. Define scheduling
- C. Define work measurement
- D. Discuss the principle of motion economy
- E. Describe the concept of work simplification
- F. Define the application of time study equipment
- G. Define the meaning of observed rating
- H. Describe the meaning of standard rating
- I. Define the concept of performance rating
- J. Define application areas of ergonomics
 - SECTION -B (ESSAY TYPE QUESTIONS) (5x10=50 Marks)
- 1. Differentiate between production and productivity with suitable example.
- 2. Discuss the objectives and procedure of work study with suitable industrial applications.

- Explain the human factors consideration in the application of work study with example.
- Explain the objectives and procedure of Method study with suitable examples.
- 5. Explain therbligs with their symbol and color and also discuss their applications.
- Explain the working of stop watch time study technique with neat diagram.
- 7. Define ergonomics. Explain its evaluation and scope of ergonomics with suitable example.
- 8. Describe the concept of man machine interaction with suitable example.

===END OF PAPER===

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