

BACHELOR OF VOCATION
Automotive Component Manufacturing
Subject: Industry 4.0
Subject Code: LBME-308
Semester: Sixth
September 2022
Theory (External): 35 Marks
Time: 03 Hours

Instructions to the Students

1. 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 1 mark.
3. Section B comprises 8 essay type questions out of which students need to do any 5. Each question carries 5 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

Roll Number

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SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

- A. Discuss the function of learning agents
- B. Discuss the Merits of IoT
- C. Discuss the function of Human machine interaction
- D. Discuss the function of touch interfaces
- E. Discuss the benefits of industry 4.0
- F. Discuss merits of 3 D printing
- G. Define merits of AI
- H. Define productivity
- I. Discuss meaning of virtual reality
- J. Define challenges of industry 4.0

SECTION –B (ESSAY TYPE QUESTIONS)
(5x5=25 Marks)

1. Explain the concept of augmented reality systems with suitable diagram

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2. Explain Industry 4.0 strategies and implementation with suitable example
3. Discuss the concept of fourth industrial revolution of Industry 4.0 with suitable example.
4. Describe lean manufacturing and its techniques with suitable examples
5. What is internet of thing? Explain in what manner this technology can improve the productivity of system with suitable example
6. Discuss the concept of cloud computing with suitable example
7. Explain the approaches of AI with suitable example along with neat diagram
8. What is artificial intelligence? Explain its objective and importance with suitable example

END OF PAPER