201019

BACHELOR OF VOCATION Automotive Component Manufacturing Subject: Welding Technology Subject Code: LBME-102 Semester: First October 2020 Theory (External): 70 Marks Time: 03 hours

INSTRUCTIONS TO THE STUDENTS

- 1. Read the questions carefully and write the answers in the answer sheets.
- 2. Wherever necessary, the diagram drawn should be neat and properly labelled.
- 3. This questions paper comprises of 8 questions out of which student need to attempt any 4 questions.
- 4. All questions carry equal marks.
- 5. The time allotted will be 3 hours for examinations including time of downloading of question paper to emailing of answer books to the concerned Dean/IC.

ESSAY TYPE QUESTIONS

- 1. Differentiate between laser welding and laser cutting operations. Mention their applications also.
- 2. Explain pressure vessel welding operation using suitable schematic diagram.
- 3. What is the purpose of preheating in case of welding of dissimilar metals? Mention various inert gases used in the welding of dissimilar metals.
- 4. Explain the working principle of spot welding with a schematic diagram.
- 5. What are the roles of squeeze pressure, current and water temperature at inlet and outlet in case of spot welding?
- 6. Explain the working principle of seam welding with a suitable diagram. What type of electrodes is used in its operation?
- 7. Write short notes with suitable diagrams on following;
 - a) Size and shape of welds,
 - b) Guns for spot welding
- 8. Write short notes on following:
 - a) Fixtures used in seam welding
 - b) Welding of cast iron to steel

*****END OF PAPER****