

B.Voc. Automotive Component Manufacturing**Subject: Workshop Technology****Subject Code: LBME-101****Semester: 1st (Regular)****Batch: 2019-20****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 (OBJECTIVE TYPE QUESTIONS)

(10x1=10 Marks)

- Q1 Differentiate between a machine and a machine tool. 1
- Q2 What is the difference between a single point and multi-point cutting tool? 1
- Q3 Give examples of single point and multi-point cutting tool. 1
- Q4 Define feed and depth of cut. 1
- Q5 Differentiate between continuous chip and discontinuous chip. 1
- Q6 What are the importance of A.C. and D.C. in welding? 1
- Q7 What are the uses of adjustable and taper reamers? 1
- Q8 Differentiate between drilling and boring? 1
- Q9 Define jigs? 1
- Q10 Differentiate between three jaw and four jaw chuck. 1

SECTION –B (ESSAY TYPE QUESTIONS)

(5x5=25 Marks)

- Q1 a) Define manufacturing. Give the classification of basic manufacturing processes? 2.5
- b) Explain the mechanics of chip formation with suitable diagram. 2.5
- Q2 Explain the tool signature of a single point cutting tool. 5
- Q3 What are properties of a tungsten carbide and cemented carbide cutting tools? What are its applications? 5
- Q4 Define electric arc welding. Discuss with the help of neat sketch, the principle of arc welding. What is straight polarity and reverse polarity? 5
- Q5 Explain the following: 5
- a) step turning and taper turning
- b) methods of taper turning.
- Q6 What are the functions of driving plate, face plate, angle plate and mandrels? 5

- Q7 a) Explain the terminology associated with reaming and drilling tool. 3.5
- b) What are the use of Plain, Side, End, Face, Metal slitting, Angle milling cutters? 1.5
- Q8 What are the materials used for milling cutters? Also explain the uses of locating and clamping devices during machining? 5

****END OF PAPER****