

2209T126

**D. Voc Mechanical Manufacturing**  
**Subject: Workshop Technology**  
**Subject Code: ME-303**  
**Semester: First**  
**September 2022**  
**Theory (External): 35 Marks**  
**Time: 03 Hours**

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**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. Define properties of high speed steel
- B. Define feed
- C. Define depth of cut
- D. Define cutting speed
- E. Define the function of Chuck
- F. Define the function of angle plate
- G. Define the function of work holding devices
- H. Discuss the function of face plate
- I. Define welding defects
- J. Discuss effect of polarity

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

1. Explain construction detail of single point cutting tool geometry with neat diagram

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2. Discuss the working of various parts of lathe machine with suitable diagram
3. Explain the construction and working of drilling machine with neat diagram
4. Explain the construction and working of milling machine with diagram
5. Describe the Specification and designation of grinding wheel along with applications suited for casting industries
6. Describe the construction and working of surface grinder with neat diagram along with applications suitable for casting industries
7. Describe the factors affecting the efficiency of broaching machine with diagram along with suitable applications in manufacturing industries
8. Discuss the working of arc welding machine with neat diagram along with its merits, demerits

END OF PAPER