

**B. Voc Automotive Manufacturing/ Mechatronics****Subject: Manufacturing Technology****Subject Code: BME-101****Semester- 1<sup>st</sup> Semester Re-appear (2017-20)****Theory (External): 35****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 6 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)

1. Core prints are prepared in moulds to support
  - a) Pattern
  - b) Cores
  - c) Chaplets
  - d) Chills
  
2. Disposable pattern are made of
  - a) Wood
  - b) Rubber
  - c) Metal
  - d) Polystyrene
  
3. The essential property of a material for drawing operation is
  - a) Elasticity
  - b) Ductility
  - c) Plasticity
  - d) Endurance
  
4. which of the welding process uses non-consumable electrodes?
  - a) SAW
  - b) MIG
  - c) GTAW
  - d) Thermit
  
5. Carburizing flame is used to weld metals such as
  - a) steel and cast iron
  - b) copper alloy
  - c) aluminium alloy
  - d) all of the above

6. In which of the following operation on lathe, the spindle speed will be minimum
- a) Turning
  - b) thread cutting
  - c) spinning
  - d) knurling
7. Built up edge is generally seen in cutting of
- a) low carbon steel
  - b) aluminium
  - c) martensite stainless steel
  - d) all of above
8. The welding technique most suitable for mass production is
- a) electric arc welding
  - b) gas welding
  - c) resistance welding
  - d) none of these
9. The mode of deformation of metal during spinning is
- a) Bending
  - b) Stretching
  - c) rolling and stretching
  - d) bending and stretching
10. Tool life is affected mainly with
- a) Feed
  - b) depth of cut
  - c) coolant
  - d) cutting speed

## SECTION -B (ESSAY TYPE QUESTIONS)

(5x5=25 Marks)

1. Explain with the help of neat sketch types of pattern. Also discuss the properties of pattern material.
2. With the help of neat sketch explain the nomenclature of single point cutting tool.
3. With the help of neat sketch explain the different types of cutting of tool wear. What is the purpose of cutting fluid?
4. Differentiate between TIG and MIG welding. Explain the function of flux.
5. Write short notes on:
  - a) Wire drawing
  - b) Extrusion principal
6. What is the industrial use of plastics? With the help of neat sketch explain working of injection moulding.

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