## DIPLOMA OF VOCATION

Mechanical-Manufacturing

Subject: Workshop Technology

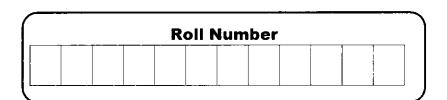
Subject Code: ME-303 Semester: First

December 2019 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



## SECTION -A (OBJECTIVE TYPE QUESTIONS) (10x1=10 Marks)

- A End of the work piece can be supported by using
  - (a) Headstock
  - (b) Tailstock
  - (c) Tool Post
  - (d) None of the mentioned
- B Thermal cracking of tools occurs at
  - (a) Low temperature
  - (b) High temperature
  - (c) Low cutting speed
  - (d) None of the mentioned
- C Following is an abrasive cutting
  - (a) Milling
  - (b) Grinding
  - (c) Laser beam machining
  - (d) All of the above
- D Angle between the rake face and plane perpendicular to rake face is known as:
  - (a) Side rake angle
  - (b) Side relief angle
  - (c) End relief angle
  - (d) Back rake angle
- E What is the function of torch?
  - (a) It controls fuel rate
  - (b) It mixes fuel and oxygen and controls delivery
  - (c) It controls oxygen rate
  - (d) None of the Mentioned

- F Which of the following dividing head is also known as simple dividing head?
  - (a) plain dividing head
  - (b) universal dividing head
  - (c) optical dividing head
  - (d) all of the mentioned
- G Which of the following is a type of welding joint?
  - (a) Tee joint
  - (b) Lap joint
  - (c) Corner joint
  - (d) All of the Mentioned
- H Which of the following is used to give power feed during cutting of threads?
  - (a) Rack and pinion
  - (b) Planer mechanism
  - (c) Quick return mechanism
  - (d) Using spilt nut
- I In welding, the two parts are joined by bringing them to a temperature which is?
  - (a) Above melting point
  - (b) Below melting point
  - (c) Equal to melting point
  - (d) None of the Mentioned
- J Which of the following arrangement is used in the movement of carriage along the ways?
  - (a) Rack and pinion
  - (b) Spindle mechanism
  - (c) Crank and slotted lever mechanism
  - (d) None of the mentioned

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

- Q1 How tool life affect with cutting speed, depth of cut and feed?
- Q2 Write about the following operation facing, parting off, reaming, threading.
- Q3 State the working principle of drilling, its classification.
- Q4 Discuss the boring bars, tools and boring heads.
- Q5 Write about the centreless grinding and cylindrical grinding.
- Q6 Write about classification, brief description and applications of milling machine.
- Q7 Define welding process and give its classification with application.
- Q8 Difference between AC and DC arc welding process.

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