

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

Roll Number

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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 split 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*****