2112E148

BACHELOR OF VOCATION
Automotive Manufacturing
Subject: Workshop Technology – II
Subject Code: BBME-205
Semester: Third
December 2021
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											

Scanned with CamScanner

SECTION –A (SHORT/OBJECTIVE TYPE QUESTIONS)
(10x1=10 Marks)

A. Write down the frequency of vibration of tool of USM.

B. Define Spark gap for EDM and write its value.

C. Write down the unit of Stress and Strain (if any).

D. Distinguish between Drawing and deep drawing Operations.

E. Write down the artificial material used for grinding wheel manufacturing.

F. Define balancing of grinding wheel.

G. Which of the following grinding machine will give a better result for rough machining?
   a) Fine grain
   b) Very fine grain
   c) Coarse grain
   d) None of the mentioned

H. Define hook's law.

I. The method of centreless grinding used to produce taper is
   a) In-feed grinding
   b) Through-feed grinding
   c) End-feed grinding
   d) Any one of these

J. Why push type broaches are made shorter in length?
   a) To reduce machining time
   b) To increase the efficiency
   c) For easy handling of the tool
   d) To avoid buckling

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

1. Explain the working principle of Electric Discharge Machining with the help of a diagram.
2. A tensile load of 100N has been applied on a shaft having diameter 4mm. Find Stress, Change in length, Strain, Percentage elongation and Modulus of elasticity for the specimen.
3. Define with neat sketch- Blanking, Piercing, Nibbling, Coining, and Trimming.
4. Explain any 5 defects in grinding wheel and 5 important factors to be considered for selecting the grinding wheel.
5. Explain in detail the Surface grinder and tool and cutter grinder.
6. Describe Hobbing, Shaping and shaving with their advantages and usage.
7. Explain Water Jet Machining with the help of a diagram.
8. Explain different Broaching holders and broaching tools.

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

Scanned with CamScanner