

- Q.28 Write a short note on lapping and honing.
- Q.29 Describe the sport welding process.
- Q.30 What should be safety measures taken on milling machine.
- Q.31 Discuss the main features of a boring machine.
- Q.32 Describe the process of gear hobbing in brief.
- Q.33 Write the function of press brakes? Also discuss its working.
- Q.34 Discuss about term related to CNC machine, productivity and accuracy.
- Q.35 Compare soldering and brazing.

Section-D

Note: Long answer questions. Attempt any two questions out of three Questions. (2x10=20)

- Q.36 Explain the selection criteria of grinding wheels. Also discuss about the safety precautions in grinding.
- Q.37 What is the principle of boring? Explain the working of a horizontal type boring machine.
- Q.38 What are the various welding defects? Also discuss about various remedial measures for them.

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**4th Sem. Branch: Agri. Engg., Auto Engg.
Sub : Manufacturing Technology -II**

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Multiple choice Questions. All Questions are compulsory. (10x1=10)

- Q.1 In case of _____ the tool is rotating and the job is reciprocating.
- a) Milling machine
 - b) Shaper machine
 - c) Planer
 - d) None of these
- Q.2 Hardness of grinding wheel is denoted by
- a) Mesh number
 - b) Grade
 - c) Structure
 - d) Bond
- Q.3 In _____ milling maximum friction is caused.
- a) Up
 - b) Down
 - c) Keyway
 - d) None of these
- Q.4 It is an important parameter of specification of a milling machine.
- a) Table size
 - b) Spindle size
 - c) Arbor size
 - d) None of these

- Q.5 Acetylene gas is stored in cylinders which form.
- Solid
 - Liquid
 - Gas
 - CNG
- Q.6 An additional metal provided in making a weld is called?
- Alloy steel
 - Carbon steel
 - Filler metal
 - All of these
- Q.7 It is process of generating a gear by means of a cutter.
- Hobbing
 - Honing
 - Shaping
 - Shaving
- Q.8 In this process, plates are bent using a set of rolls.
- Flanging
 - Roll bending
 - Bending
 - Hemming
- Q.9 SIC stands for
- Silicate
 - Silicon carbon
 - Silicon carbide
 - Aluminium oxide
- Q.10 Principle of resistance welding is based on _____.
- Archimedes law
 - Coulomb's law
 - Newton's law of motion
 - Joule's law of heating

Section-B

Note: Objective type questions. All questions are compulsory. $(10 \times 1 = 10)$

- Q.11 CNC stands for _____.

- Q.12 Write any two welding defects.
- Q.13 Define coolant.
- Q.14 Name the gases used in TIG welding.
- Q.15 Write any two milling cutters names.
- Q.16 List two types of drills.
- Q.17 State two types of gears.
- Q.18 State two types of grinding wheels.
- Q.19 Write two advantages of welding.
- Q.20 What is the purpose of super finishing operation.

Section-C

Note: Short answer type Question. Attempt any twelve questions out of fifteen Questions. $(12 \times 5 = 60)$

- Q.21 Describe the process of cylindrical grinding.
- Q.22 Explain the simple indexing of a job on milling machine.
- Q.23 Write at least five advantages of CNC machine.
- Q.24 Write at least five functions of cutting fluid.
- Q.25 Differentiate between reaming and drilling.
- Q.26 What is the super finishing operation? Also write its various applications in manufacturing.
- Q.27 Explain the working principle of centre less grinding.