

No. of Printed Pages : 4  
Roll No. ....

221744

**4th Sem / Mech., Mech(T&D)**  
**Subject : Workshop Technology-III**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

Q.1 Which of the following process have the lowest metal removal rate?

- a) Drilling
- b) Reaming
- c) Milling
- d) Honing

Q.2 Most cylindrical grinding include a \_\_\_\_\_ to allow the forming of tapered piece.

- a) Grinding dog
- b) Swivel
- c) Center driver
- d) None of the above

Q.3 A screw is specified by its

- a) Major diameter
- b) Minor diameter
- c) Pitch diameter
- d) pitch

Q.4 Gear shaping is related to \_\_\_\_\_  
a) Template                  b) Form, tooth process  
c) Hob                        d) Generating

Q.5 Abrasive slurry in ultrasonic machine is  
a) Water based              b) Mercury based  
c) Alcohol based            d) Oil based

Q.6 The desired property of gear material are  
a) Notch sensitivity factor should be low  
b) Strength should be high  
c) It should have better machinability  
d) All of the above

**SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

Q.7 Name any 2 gear materials

Q.8 Define truing of grinding wheels ?

Q.9 What is the function of a press ?

Q.10 Define embossing .

Q.11 Define extrusion.

Q.12 Name any two materials for dies.

(1)

221744

(2)

221744

## **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions.  $(8 \times 4 = 32)$

- Q.13 Write short note on gear manufacturing by stamping with a line diagram.
- Q.14 Write short note on abrasives.
- Q.15 Describe the process of centre less grinding.
- Q.16 Differentiate between piercing and notching process.
- Q.17 Explain the process of pipe drawing with diagram.
- Q.18 Differentiate between open and closed die forging
- Q.19 Write short note on abrasive jet machining.
- Q.20 Explain the galvenizing process giving its merits.
- Q.21 Write short note on thread rolling
- Q.22 Write short note on honing process and the hones .

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions.  $(2 \times 8 = 16)$

- Q.23 What is hob ? Explain the gear hobbing process with a simple diagram.
- Q.24 Explain the Electro-Discharge machining process, giving its equipment and parameters.
- Q.25 Explain various rolling defects and their remedies.