

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

221744

**4th Sem./ Mechanical, Mech ( Tool & Die)**  
**Subject : Workshop Technology – III**

Time : 3 Hrs. M.M. : 60

**SECTION-A**

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

- Q.1 Grinding wheel is specified as “A 46 K 5 B 17”.  
Grain size of a wheel will be  
a) Coarse                  b) Medium  
c) Fine                  d) Very Fine
- Q.2 Which of the following is not a gear finishing process.  
a) Lapping                  b) Gear shaving  
c) Gear hobbing                  d) Gear grinding
- Q.3 An example of an anodic coating is \_\_\_\_\_  
a) Zinc                  b) Copper  
c) Nickle                  d) Chromium

- Q.4 Which of the following is a dielectric fluid?  
a) Kerosene                  b) Silicon Oil  
c) White spirit                  d) Water
- Q.5 Operation done to make periphery of grinding wheel concentric with its axis to recover its lost shape is known as  
a) Loading                  b) Glazing  
c) Dressing                  d) Trueing
- Q.6 In lapping, the lubricant used to hold or retain the abrasive grains during operation is known as  
a) Vehicle                  b) Holder  
c) Absorber                  d) Retainer

**SECTION-B**

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

- Q.7 Define gear hobbing.
- Q.8 Name any 2 artificial abrasives.
- Q.9 What do you mean by dressing of wheels?
- Q.10 Define piercing.
- Q.11 Drawing is a press operation for \_\_\_\_\_
- Q.12 Define di-electric fluid.

(1)

221744

(2)

221744

## **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13 Explain any four organic coatings.
- Q.14 Explain standard making system of a grinding wheel.
- Q.15 Classify presses and Explain any one.
- Q.16 Explain upset forging.
- Q.17 Describe ultrasonic machining process.
- Q.18 Give the advantages and limitations of cylindrical grinding.
- Q.19 Differentiate between cold and hot drawing.
- Q.20 Write short note on electroplating.
- Q.21 Explain any 4 rolling defects.
- Q.22 Differentiate between lapping and buffing process.

## **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write a short note on any two : Embossing, stamping and notching
- Q.24 Explain the equipment and parameters of Abrasive jet machining.
- Q.25 Explain with diagrams, the methods of balancing and mounting of wheels.

(3)

221744

(2700)

(4)

221744