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Roll No. ....

4th Sem.

Branch : Mechanical Mech. (Tool & Die.)

Sub. : Workshop Technology -III

Time : 3 Hrs.

M.M. : 60

### SECTION-A

**Note: Multiple type Questions. All Questions are compulsory. (6x1=6)**

Q.1 Which machine uses jet of high temperature ionized gas:

- a) ECM                                      b) USM
- c) EDM                                      d) PAM

Q.2 What type of paint is used to make surface water proof

- a) Oil base paint                      b) Bituminous paint
- c) Lacquer base                      d) None of the above

Q.3 Which metal is coated on the surface of material in the process of galvanisation?

- a) Silver                                      b) Copper
- c) Zinc                                      d) Brass

Q.4 In a grinding wheel code, the first symbol is

- a) Band grade                      b) Abrasive type
- c) Structure                      d) None of the above

Q.5 Which of the following acts as a dielectric fluid

- a) Kerosene                      b) Silicon oil
- c) White spirit                      d) All of the above

Q.6 In electroplating process, the workpiece is made

- a) Cathode                      b) Anode
- c) Ionic                      d) Di-Electric

### SECTION-B

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

Q.7 Define swaging.

Q.8 What is pipe drawing process?

Q.9 Expand EDM.

Q.10 Name any one lapping compound.

Q.11 Is the trimming and shaving same process.

(True/False)

Q.12 Define Punching.

### SECTION-C

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

Q.13 Explain any gear shaping process.

Q.14 Explain any 4 rolling defects.

Q.15 Give the process of center less grinding and its advantages.

Q.16 Explain press shearing and piercing process.

Q.17 Describe Electro-Chemical machining process.

Q.18 Explain organic coatings and its method.

Q.19 Describe gear finishing method.

Q.20 Write short note on electroplating.

Q.21 Explain Buffing.

Q.22 What is dressing of grinding wheels? How it is done?

### SECTION-D

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

Q.23 What is hone? Explain honing process and its applications.

Q.24 Explain laser Beam Machining with a neat sketch. Write its applications.

Q.25 What is theory of rolling? Explain with diagrams, the methods of thread rolling.