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5th Sem, **Branch** : Mechanical

**Subject** : Workshop Technology-3

**Time** : 3 Hrs.

**M.M.** : 100

### SECTION-A

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

Q.1 Removal of metal by feeding work against a rotating cutter is called. (CO-02)

- a) Shaping                      b) Milling
- c) Turning                      d) None of the above

Q.2 Gears can be cut easily on. (CO-06)

- a) Lathe                      b) Drilling
- c) Milling machine      d) None of the above

Q.3 Which of the following is a gear finishing process? (CO-06)

- a) Lapping                      b) Gear hobbing
- c) Gear shaping              d) All of the above

Q.4 Grinding operation is used for. (CO-04)

- a) Dressing                      b) Finishing
- c) Planning                      d) None of the above

Q.5 While specifying a wheel, grain size is indicated by. (CO-04)

- a) Numbers                      b) Symbols
- c) Alphabets                      d) None of the above

Q.6 Which machine needs jet of high temperature ionized gas? (CO-07)

- a) EBM                      b) LBM
- c) EDM                      d) PAM

Q.7 The process of providing a thin layer of zinc coating on iron and steel is called. (CO-08)

- a) Electroplating              b) Cementation
- c) Metal cladding              d) Galvanising

Q.8 In electro planting, the work piece act as. (CO-08)

- a) Anode                      b) Cathode
- c) Neutral                      d) None of the above

Q.9 Which of the following material may be used for the body of lap? (CO-09)

- a) Lead                      b) Copper
- c) Soft cast iron              d) All of the above

Q.10 Ultrasonic machining is based upon. (CO-07)

- a) Uniform machining
- b) Uniform grinding
- c) Uniform heating
- d) Vibrational waves of high frequency

### SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

Q.11 What is ideal surface. (CO-09)

Q.12 What is descaling. (CO-08)

- Q.13 The full form of USM. (CO-07)
- Q.14 What is grinding wheel. (CO-04)
- Q.15 Name different type of hobbing. (CO-06)
- Q.16 What is Module. (CO-06)
- Q.17 What is fillet. (CO-07)
- Q.18 Conventional milling is also known as \_\_\_\_\_. (CO-02)
- Q.19 What is gang milling. (CO-02)
- Q.20 What is milling cutter. (CO-02)

### SECTION-C

**Note :** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 What are the purposes of supplying abrasive slurry in ultra-sonic machine. (CO-07)
- Q.22 Write the application of laser beam machining. (CO-07)
- Q.23 Define surface grinding. (CO-04)
- Q.24 Explain balancing of grinding wheels. (CO-04)
- Q.25 Write the advantage of milling machine. (CO-02)
- Q.26 Define any two milling cutter. (CO-02)
- Q.27 Define the different type of gear. (CO-06)
- Q.28 Define gear shaping. (CO-06)
- Q.29 Explain galvanising with the help of neat sketch. (CO-08)

- Q.30 Define the process of powder coating. (CO-08)
- Q.31 Write the application of polishing. (CO-09)
- Q.32 Define hand lapping. (CO-09)
- Q.33 Define surface roughness measurement method (CO-09)
- Q.34 Define offset milling machine. (CO-02)
- Q.35 Write the application honing process. (CO-07)

### SECTION-D

**Note :** Long Answer type question. Attempt any two questions. (2x10=20)

- Q.36 Explain any four milling operation. (CO-02)
- Q.37 Explain cylindrical grinding machine with the help of neat sketch. (CO-04)
- Q.38 Explain the principle and process of electric discharge machine. (CO-07)