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**5th Sem. / Mech./Prod./T&D/CAD/CAM/F&F**

**Subject : Workshop Technology-III**

Time : 3 Hrs.

M.M. : 100

### **SECTION-A**

**Note:** Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1
- a) Which are two common methods?
  - b) Give the material of milling cutter.
  - c) Define side milling.
  - d) Define indexing head.
  - e) What is grinding wheel?
  - f) Define bond.
  - g) What is truing of grinding wheel?
  - h) What is surface grinding?
  - i) Write the advantages of built up wheels.
  - j) What is gear hobbing?

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- k) What are the various elements of ultrasonic machining?
- l) What is the principle of laser beam machining?
- m) Write two applications of electro chemical machining.
- n) What is the use of dielectric fluid in electric discharge machining?
- o) Define metal spraying.
- p) Define hone.
- q) What are types of lapping operations.
- r) What is super finishing?

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### **SECTION-B**

**Note:** Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) What are the main work that can be produced on a milling machine?
  - ii) Explain down milling.
  - iii) What are the main advantages of a milling machine?

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- iv) How a milling machine is specified?
- v) What is compound indexing?
- vi) What are the main advantages of grinding over other cutting process?
- vii) What are the main elements of grinding wheel?
- viii) Explain the process of mounting of grinding wheels.
- ix) What is centerless grinding?
- x) Explain the process of gear shaping.
- xi) What are the main advantages & disadvantages of electric discharge machining?
- xii) Explain the process of electroplating with neat sketch.
- xiii) What are the advantages of honing process?
- xiv) What is lapping? Give its types.
- xv) Explain vertical honing machine.

**Note:** Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 What is milling cutter? What types of milling cutters are used in milling machine? Explain any two of them in detail.
- Q.4 Explain in detail the specifications system of grinding wheels as per BIS.
- Q.5 Explain the principle and process of laser beam machining.
- Q.6 What are different types of lapping machines. Explain any two of them.
- Q.7 What is buffing process? Explain the buffing process and its applications in detail.