SCHOOL OF DIPLOMA ENGINEERING, SOLDHA QUESTIONS FOR REVISION DIPLOMA ME 5TH SEM SUBJECT-WT-III

VERY SHORT QUESTION (2 MARKS)

- 1. Draw a neat sketch of column and knee type Milling Machine.
- 2. Name any two materials of milling cutter.
- 3. Define Indexing.
- 4. Define cutting speed in Milling Machine.
- 5. Give any two elements of grinding wheel.
- 6. Define the balancing of Grinding Wheel.
- 7. Name any two method of Grinding.
- 8. Name any two methods of gear Manufacturing.
- 9. Define Gear shaping.
- 10. Name any two types of gears.
- 11. Define electrical discharge machining.
- 12. Name any two non conventional methods of machining.
- 13. Name the dielectric fluid used in EDM.
- 14. Give any two applications of metal spraying.
- 15. Is electroplating a metal coating process?
- 16. Name any two process of surface finishing.
- 17. Give any two applications of lapping
- 18. Give any two purpose of finishing surface.
- 19. In which type of modern machining process a transducer is used to convert electrical energy into mechanical energy.
- 20. Name the fundamental principle of ECM.
- 21. What for LBM and EBM stands?
- 22. State any two disadvantages of EBM.
- 23. Define metal Spraying.
- 24. The process of providing thin layer of zinc on metal steel is known as _____.
- 25. Define surface roughness.
- 26. Which process is commonly used to remove scratches and tool marks.
- 27. State which of the following is used for stroke removal. Honing or Lapping?
- 28. How hones classified?
- 29. Enlist various methods to improve surface appearance of metals.
- 30. Name the gears used for transmitting power between parallels shafts.
- 31. Name the various types of indexing heads.
- 32. Define straddle milling.
- 33. Define cutting speed applied to milling machines
- 34. In up milling operations, in which direction the cutter rotates with respect to the work is fed.
- 35. Can helical gears be cut on horizontal milling machines?
- 36. How are milling machines classified? Name any two types.

SHORT QUESTION (4 MARKS)

- 1. Suggest which type of grinding wheels are preferred for grinding
 - a. Hard material.
 - b. Smaller size of the work.
- 2. Name the materials (any two) of which a grinding wheel is made up of.
- 3. Enlist the various types of grinding wheels used on grinding machines.
- 4. Explain the term dressing as applied to grinding wheels.
- 5. Name a few fluids which are used as dielectric fluids in EDM processes.
- 6. Write a few applications of laser beam machining.
- 7. Describe the principle of electron beam machining.
- 8. Write down a few applications of powder metal spraying.
- 9. Name a few commonly used lapping vehicles.
- 10. Write short note on honing allowances.
- 11. Name the cutting tool used in milling machine. Also state the part of milling machine where it is mounted.
- 12. Name the two types of milling methods.
- 13. Name any four milling operations.
- 14. Explain balancing of grinding wheel. Why it is done.
- 15. Explain the working principle of milling machine with a neat sketch.
- 16. Explain the Principle of Buffing.
- 17. Explain with neat sketch the down milling.
- 18. Explain with neat sketch the Form milling.
- 19. Explain with neat sketch the principle of centre less grinder.
- 20. How can you specify grinding wheel?
- 21. Explain Dressing, Truing and Mounting of grinding wheel.
- 22. Explain the principle of EDM.
- 23. Give the two advantages and two limitations of ECM.
- 24. Explain the principle of powder process.
- 25. Give application of wire process.
- 26. Show with neat sketch the elements of surface roughness.
- 27. Explain with neat sketch the principle of lapping.
- 28. Sketch and describe a slot milling.
- 29. Why a coolant is used in grinding work?
- 30. Explain the principle of gear hobbing.

LONG QUESTION (10 MARKS)

- 1. Explain the construction and working of plain dividing head.
- 2. What is EDM? Explain its principle with the help of suitable diagram.
- 3. Write short notes on
 - a. Polishing
 - b. Buffing.
- 4. Explain with neat sketch construction and working of centreless Grinder.
- 5. Sketch and describe the following operations.
 - a. Side Milling.
 - b. Gear Milling.
- 6. Explain with neat sketches the following milling operations.
 - a. Face milling.

- b. Straddle milling.
- c. Gang milling
- 7. Enlist various milling machine accessories and explain any two of them.
- 8. Draw various shapes of grinding wheels and describe where these are used.
- 9. Write short notes on
 - a. Gear shaping.
 - b. Ultrasonic machining its limitations and applications only.
- 10. Explain with neat sketch the following.
 - a. Wire process of metal spraying.
 - b. Super finishing process.