

1278**Code : 15ME-43T***Register
Number*

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IV Semester Diploma Examination, April/May-2017**MACHINE TOOL TECHNOLOGY****Time : 3 Hours]****[Max. Marks : 100****Note :** Answer any **SIX** from Part – A and any **SEVEN** questions from Part – B.**PART – A**(Any **SIX** questions to be answered)

1. State the important characteristics of cutting tool materials.
2. List the specifications of centre lathe.
3. Write the advantages of turret lathe over capstan lathe.
4. List the various operations performed in a slotting machine.
5. Differentiate between Shaper and Planer.
6. State the importance of Jigs and Fixtures.
7. Write the difference between upmilling and down milling.
8. List the advantages of centerless grinding over surface grinding.
9. Sketch and explain electric discharge machining.

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PART – B

(Any SEVEN questions to be answered)

10. Sketch and explain the Geometry of single point cutting tool. **10**
11. Explain the functions of following lathe accessories ? **10**
- (a) Four Jaw chuck
 - (b) Mandrel
 - (c) Face plate
 - (d) Steady rest
12. Write the different methods of taper turning. Explain taper turning by tailstock set over method by using suitable sketch. **10**
13. With the neat sketch explain the working of planer. **10**
14. Sketch and explain the Hydraulic shaper mechanism. **10**
15. Explain with a neat sketch the working of radial drilling machine. **10**
16. With the line diagram explain following milling operation. **10**
- (a) Form milling
 - (b) Gang milling
 - (c) Plain milling
 - (d) Angular milling
17. With a neat sketch explain column and knee type milling machine. **10**
18. Explain the following surface finishing operations : **10**
- (a) Honing
 - (b) Lapping
 - (c) Super finishing
 - (d) Polishing
19. Sketch and explain ultrasonic machining. **10**

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**10****10**

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