

C14-M-506

4647

BOARD DIPLOMA EXAMINATION, (C-14) OCTOBER/NOVEMBER-2018 DME-FIFTH SEMESTER EXAMINATION

MACHINE TOOL ENGINEERING

Time: 3 Hours] [Total Marks: 80

PART-A

3X10=30

Instructions:

- 1. Answer **All** questions.
- 2. Each question carries THREE marks
- 3. Answer should be brief and straight to the point
- 1. State advantages of non-conventional machining over conventional machining.
- 2. Write any three advantages of laser beam machining.
- 3. State the principle of chemical machining.
- 4. List out any six engineering applications plastics.
- 5. What is calendaring of plastics?
- 6. Distinguish between blanking and punching.
- 7. State the functions of drill bush.
- 8. Differentiate between jigs and fixtures.
- 9. List out various types of clamps.
- 10. Mention the methods for locating the positions of hole used on jig boring machine.

PART-B

10X5=50

Instructions:

- 1. Answer any **five** questions.
- 2. Each question carries ten marks.
- 3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer
- 11. Explain the operation of electric discharge machining (EDM) with neat sketch. State its advantages and disadvantages.
- 12. Explain the abrasive jet machining with a sketch. State its advantages and disadvantages.
- 13. Explain moulding press with a neat sketch and its applications.
- 14. Explain direct blow moulding in fabrication of plastics with a neat sketch.
- 15. Explain simple cutting die set assembly and label the parts.
- 16. Explain the different types of press tool shaping operations.
- 17. Explain leaf jig with a diagram.
- 18. Draw cross-rail jig boring machine and explain its working.
