C14–M–506

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BOARD DIPLOMA EXAMINATION, (C–14)
SEPTEMBER/OCTOBER - 2020
DME—FIFTH SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY—III

Time : 3 hours]   [*Total Marks* : 80

PART—A   3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. How are modern machining processes classified based on the type of energy used?

2. List out the equipments used in ultrasonic machine.

3. State any three advantages of laser beam machining.

4. List out any six engineering applications of plastics.

5. What are the common methods used for joining plastics?

6. Define blanking and piercing.

7. State the classification of dies.

8. Differentiate between jigs and fixtures.

9. Name the different types of bushes used in drill jig.

10. Write a short note on button method of locating hole.

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PART—B   10×5=50

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Instructions : (1) Answer *any* **five** questions.

                (2) Each question carries **ten** marks.

                (3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. Explain electric discharge machining with a neat sketch and state its advantages, disadvantages and applications.

12. Describe the process of chemical machining with neat sketch and state its advantages, disadvantages and applications.

13. Explain transfers moulding process with the help of neat sketch and state its advantages, disadvantages and applications.

14. Explain the principle and working of blow moulding of plastics with neat sketch.

15. List and explain various forming operations of press tool.

16. What is clamp? Explain the working principle of any two with neat sketch.

17. *(a)* Explain working of any two types of drill jigs.

      (b) Explain about die clearance and punch clearance.

18. Explain the working principle of jig boring machine with neat sketch.

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