Code: C16 M-404

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BOARD DIPLOMA EXAMINATION JUNE - 2019

DIPLOMA IN MECHANICAL ENGINEERING

PRODUCTION TECHNOLOGY-II FOURTH SEMESTER EXAMINATION

Time: 3 Hours Total Marks: 80

PART - A $(3m \times 10 = 30m)$

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

- 1. List out any six milling machines
- 2. Name six types of milling cutters
- 3. Write any three differences between gear hobbing and gear shaping
- 4. List any six surface finishing processes
- 5. Define 'Grade' and 'Structure' of a grinding wheel
- 6. Draw the simple sketch of Laser beam machining and label the parts
- 7. List any three additives of plastics
- 8. What are the principal elements of a mechanical press?
- 9. Distinguish between the Jig and a Fixture
- 10. What is a jig boring machine and state its specific features?

PART - B $(10m \times 5 = 50m)$

Note 1:Answer any five questions and each carries 10 marks

- * 2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer
 - 11. Explain simple indexing with a sketch
 - 12. Describe form cutting methods of making gears with the help of sketch.
 - 13. Write short notes on the following bonding materials:
 - (a) Vitrified Bond (b) Silicate Bond (c) Shellac Bond d) resinoid Bond
 - 14. Explain the operation of Electric discharge machining with a sketch and state its advantages and limitations
 - 15. Describe compression moulding of plastics with the help of sketch

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- 16. List and explain various cutting operations by press tool
- 17. List various types of drill jigs and explain any two with the help of sketch
- 18. Write the constructional details and working of cross rail jig boring machine with neat sketch.

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