

3502
BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL - 2019
DIPLOMA IN MECHANICAL ENGINEERING
MANUFACTURING TECHNOLOGY-II
FOURTH SEMESTER EXAMINATION

Time: 3 Hours

Total Marks: 80

PART - A (10 x 3 = 30 Marks)

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 any six milling operations.
2. State any three differences between gear forming and gear generation methods.
3. State the principle of gear shaving.
4. What are the functions of Surface coatings.
5. List out any six types of grinding machines.
6. Write any three advantages of Laser beam machining?
7. State different types of compression moulding of plastics.
8. What is 'punch' and 'die' in a press work ?
9. What are the advantages of using Jigs and fixtures.
10. What is a jig boring machine and how are they classified.

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question 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. What are the various milling attachments used and explain any one in detail?
12. Draw a sketch of universal milling machine and explain the function of each part.
- * 13. Explain the following processes
a) Honing b) Lapping c) Super finishing
14. Explain the operation of Electrical discharge machining (EDM) with a sketch. State its advantages and disadvantages.
15. Explain the different stages involved in lamination of sheet in plastic with a line diagram.
16. Draw a sketch of milling fixture and explain its operation.
17. Draw a sketch of punch and die set and indicate main components. State the purpose of these components.
18. a. List out the various commonly used bond materials in Grinding and explain Vitrified Bond?
b. Draw a line diagram of open front jig boring machine and explain.

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