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BOARD DIPLOMA EXAMINATION, (C-16)
AUGUST/SEPTEMBER—2021
DME - FOURTH SEMESTER EXAMINATION
PRODUCTION TECHNOLOGY - II

Time : 3 hours]

[Total Marks : 80

PART—A

- 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. Write the working principle of milling machine. 3
2. What is indexing? List out various indexing methods. 2+1
3. Write the various gear finishing processes. 3
4. List out any three special purpose of grinding machines. 3
5. State the functions of organic coatings. 3
- * 6. State advantages of non-conventional machining over conventional machining. 3
7. What is calendaring of plastics? 3
8. What is meant by power press? 3
9. What is an indexing jig? 3
10. What is jig boring machine? 3

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* PART—B

- Instructions : (1) Answer *any* five questions.
(2) Each question carries ten marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Draw a line diagram of vertical milling machine and mention the function of each part. 4+6
12. Draw a neat sketch of gear shaper and describe the process using pinion cutter. 5+5
13. Classify the grinding machines and explain the working principle of center less grinding machine with a neat sketch. 3+7
14. Explain the different stages involved in lamination of tube with line diagram. 6+4
15. Explain electrical discharge machining with a neat sketch and state its applications. 6+4
16. What are the types of dies? Explain progressive die with a neat sketch. 4+6
17. Draw and explain leaf jig a neat sketch. 4+6
18. Explain the working principle of cross rail type jig boring machine with a neat sketch. 6+4

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