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BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
DIPLOMA IN MECHANICAL ENGINEERING
PRODUCTION TECHNOLOGY-II
FOURTH SEMESTER EXAMINATION

Time: 3 Hours **Total Marks: 80**

PART - A (3m x 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. Write the uses of end milling cutter
2. Write the classification of milling machine
3. List out the various components of gear hobbing machine
4. What is meant by surface preparation for metal spraying?
5. Write any three advantages of centreless grinding
6. Write the classification of modern machining processes.
7. Write any six methods for joining plastic parts.
8. Write names of FIVE types of dies.
9. What are the advantages of hydraulic clamping?
10. Draw Line diagram crossrail Jig boring machine and name the parts.

PART - B (10m x 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. List various methods of indexing and explain compound indexing
12. Explain gear lapping and gear honing methods with the help of sketch
13. Explain various parts of cylindrical grinding machine with the help of sketch
14. Explain the abrasive jet machining with a sketch and state its advantages and limitations
15. Explain the principle of the following process with the help of sketch:

    a) Vacuum forming b) blow moulding

16. List and explain various cutting operations by press tool

17. **Explain a toggle clamp and cam clamp with sketches**.

18. **Explain various hole location methods with the help of sketches**.

- xxx -