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C09-M-402

**3502**

**BOARD DIPLOMA EXAMINATION, (C-09)  
OCT/NOV—2018  
DME—FOURTH SEMESTER EXAMINATION  
MANUFACTURING TECHNOLOGY-II**

Time : 3 hours ]

[ Total Marks : 80

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**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. Differentiate between straddle milling and gang milling.
2. Write the various gear finishing operations.
3. List various methods of gear manufacturing.
4. What is meant by metal spraying?
5. State the constant factors to be considered for selection of a grinding wheel.
6. Write the applications of Non-conventional machining processes.
7. What is the purpose of filler material as an additive of plastics?

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8. What are the advantages of hydraulic press over mechanical press?
9. Distinguish between the Jig and a Fixture.
10. Draw a line diagram of cross rail jib boring machine.

**PART—B**

10×5=50

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

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

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

11. List the work holding devices used in milling and explain any four in detail.
12. Draw a line diagram of horizontal milling machine and explain the function of each part.
13. List out various methods of grinding and explain cylindrical grinding machine.
14. Explain the operation of electrical discharge machine (EDM) with a sketch. State its advantages and disadvantages.
15. (a) Draw a sketch of moulding press and label the parts.  
(b) Describe the principle of extrusion moulding with a sketch.
16. (a) Explain combination die with a sketch.  
(b) Explain inverted die with a sketch.
17. Draw a sketch of milling fixture and explain its operation.
18. (a) Describe the principle of Lapping with the help of a neat sketch.  
(b) Explain button method of hole location.

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