



3502

C09-M-402

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**BOARD DIPLOMA EXAMINATION, (C-09)
OCTOBER/NOVEMBER-2018
DME - FOURTH SEMESTER EXAMINATION**

MANUFACTURING TECHNOLOGY – II

Time : 3 Hours]

[Total Marks: 80

PART-A

3X10=30

- Instructions** :
1. Answer **All** questions.
 2. Each question carries **three** marks.
 3. Answer should be brief and straight to the point and shall not exceed five simple sentences.

1. What are the differences between straddle milling and gang milling?
2. State the principle of milling.
3. List various types of tool holding devices used in milling.
- * 4. What is the purpose of metal spraying?
5. What is meant by “Through feed center less grinding”?
6. Name the abrasive particles used in abrasive jet machining.
7. What is the purpose of filler material as an additive of plastics?
8. List out various shaping operations used with press work.
9. What are the advantages of hydraulic clamping?
10. Draw a line diagram of cross rail jig boring machine.

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PART-B

10X5=50

Instructions :

1. Answer any **Five** questions.
2. Each question carries **ten** marks.

11. Explain gear shaping method with sketch
12. (a) Briefly explain simple indexing with help of neat sketch.
(b) Briefly explain the construction and working principle of plain dividing head
13. (a) Write short notes on the following terms related to grinding wheel
(a) Grit (b) Grade (c) Structure
(b) How a grinding wheel is specified? State the meaning of each parameter
14. Explain the principle of laser beam machining with a sketch and state its advantages and limitations
15. (a) Describe the principle of calendaring of plastics with a diagram
(b) Draw sketches showing different stages of “blow moulding”.
16. How presses are classified and explain anyone with a neat sketch.
17. Explain the principle of location of arresting six degrees of freedom
18. (a) How a grinding wheel is specified and write the meaning of each parameter
(b) Explain the principle of electromagnetic measuring system.

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