



C14-M-506

4647

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH / APRIL - 2019

DME - V SEMESTER EXAMINATION

MACHINE TOOL ENGINEERING

Time : 3 Hours]

[Total Marks : 80

PART - A

3×10=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 State advantages and limitations of non-conventional machining over conventional machining.
- 2 What are the advantages of laser beam machining ?
- 3 State any three limitations of Ultra sonic machining.
- 4 What is the purpose of the following additives of plastics ?
(a) Asbestos, (b) Mica, (c) Carbon.
- 5 What is calendaring of plastics ?
- 6 What are the different types of dies ?
- 7 How a press is specified ?
- 8 List out the press tool operations.
- 9 Differentiate between jigs and fixtures.
- 10 State the functions of jig boring machine.

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[Contd...

PART - B

10×5=50

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

- 11 Explain the principle of EDM with a neat sketch.
- 12 Explain the abrasive jet machining with a sketch, stating its advantages and disadvantages.
- 13 Explain the process of direct blow moulding with neat line diagram. Mention its advantages and limitations.
- 14 Explain the different stages involved in lamination of sheet with a line diagram.
- 15 Explain the constructional details of a power press with the help of a legible sketch.
- 16 List and explain any four types of clamps used with jigs and fixtures.
- 17 List various press tool components. Explain each of them.
- 18 Explain about Button boring in lathe with a neat sketch.
