C16/C-16S-M-405

5688

BOARD DIPLOMA EXAMINATION, (C-16/C-16S)

MARCH / APRIL - 2019

DME - IV SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY - II

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.

1 State the working principle of grinding.

2 Define 'grade'. How it effects the selection of grinding wheel ?

3 State the functions of organic coatings.

4 State the principle of abrasive jet machining.

5 State any three advantages of non conventional machining over conventional machining.

6 List out any six engineering applications of plastics.

7 What is calendaring of plastics ?

8 Distinguish between jig and fixture.

9 Define blanking and piercing.

10 What is comparator ? State its uses.

PART - B

10×5=50

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

11 Explain the working principle of centre less grinding with neat sketch.

12 Write short notes on :

(a) Lapping

(b) Honing

(c) Super finishing

13 Explain the working principle of laser beam machining with neat sketch and state its applications.

14 (a) Explain the principle of chemical machining and state its applications. 5

(b) Write short notes on welding of plastics. 5

15 Describe transfer moulding of plastics with neat sketch.

16 List different types dies and explain compound die with a neat sketch.

17 Explain the following with neat sketch.

(a) Leaf jig

(b) Milling fixture

18 With the aid of diagram, explain the principle of operation of interferometer.