

со9-м-306

3250

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV-2017

DME—THIRD SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY-I

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

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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.** Define turning and facing operations. $1\frac{1}{2}+1\frac{1}{2}=3$
- **2.** What is the difference between single-point and multipoint cutting tool?
- **3.** State the lathe accessories used in engine lathe. 3
- **4.** Mention any six work holding devices in planner. $\frac{1}{2}\times 6=3$
- **5.** What is Broach?
- **6.** How does cutting fluid improve the tool life? 3
- **7.** State the functions of flux in soldering. 3

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8.	What is meant by brazing?	3
9.	List out the most commonly used dimensional measurements.	3
10.	Write the principle of sine-bar.	3

Instructions : (1) Answer any five questions.

PART—B

10×5=50

	(2) Each question carries ten marks.
	(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.
11.	Explain the nomenclature of a single-point cutting tool with a neat sketch. 5+5
12.	Describe the function of a lathe tail-stock with a neat sketch. 5+5
13.	(a) Write a short note on Collets. 5
	(b) Draw a line diagram of slotter and indicate its main parts. 5
14.	Explain the working principle of crank and slotted lever mechanism employed for sharper with a neat sketch. 5+5
15.	 (a) Sketch an internal pull broach and show various elements on it. (b) Explain the properties of cutting fluids. 5
	(b) Explain the properties of cutting fluids. 5
16.	Explain the differences between welding, brazing and soldering. 10
17.	Explain leftward and rightward gas welding techniques with neat sketches. 5+5
18.	Explain the working principle of an optical flat with a neat sketch. $5+5$

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