

CO9-M-306

3250

BOARD DIPLOMA EXAMINATION, (C-09) OCT/NOV-2017

DME—THIRD SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY—I

1 ime	e: 3 nours j		[Total Marks : 80
		PART—A	3×10=30
Inst	ructions: (1)	Answer all questions.	
	(2)	Each question carries three mar	ks.
	(3)	Answers should be brief and straig shall not exceed <i>five</i> simple sent	-
1.	Define turnin	g and facing operations.	1½+1½=3
2.	What is the cutting tool?	difference between single-point a	and multipoint 3
3.	State the lath	ne accessories used in engine lath	ne. 3
4.	Mention any	six work holding devices in plant	ner. $\frac{1}{2} \times 6 = 3$
5.	What is Broad	ch?	3
6.	How does cut	ting fluid improve the tool life?	3
7.	State the fun	ctions of flux in soldering.	3
/32!	50	1 *	[Contd

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		
	PART—B 10×5=	50		
Inst	ructions: (1) Answer any five questions.			
	(2) Each question carries ten marks.			
	(3) Answers should be comprehensive and the criteri for valuation is the content but not the length of t 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.	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		
18.	Explain the working principle of an optical flat with a neat sketch.	+5		

* * *