

/4254

## C14-M-306

## 4254

## BOARD DIPLOMA EXAMINATION, (C-14) OCT/NOV-2017 DME—THIRD SEMESTER EXAMINATION

## PRODUCTION TECHNOLOGY—I

Time	e: 3 hours ]	[ Total Marks : 8	30
	PART—A	3×10=3	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	-	nd
1.	What is Knurling? Mention its purpose.	1½+1½:	=3
2.	Briefly explain tool signature of single-point cu	atting tool.	3
3.	Write any three differences between capstan and	l turret lathes.	3
4.	Briefly explain working principle of slotter.		3
5.	List out any six work holding devices used in Pla	ning Machine.	3
6.	Write three types of quick return mechanisms	of shaper.	3
7.	Mention any three purpose of lubricants.		3

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8.	Write three advantages and three disadvantages of welding.	3		
9.	Mention three types of non-destructive tests used for detection of welding defects.	3		
10.	Briefly explain principle of gas welding.	3		
	<b>PART—B</b> 10×5=5	0		
Instructions: (1) Answer any five questions.				
	(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.	List out different Lathe Operations and explain any two operations with a neat sketches.  5+5=16	0		
12.	Explain Swiss type automatic screw machine with neat sketch. 5+5=10	0		
13.	Draw a neat sketch of standard double housing planer and briefly explain main components.  6+4=16	0		
14.	Draw a line diagram of a shaper, label and explain the parts.  4+2+4=10	0		
15.	(a) Draw a neat sketch of internal pull broach.	4		
	(b) Explain any three broaching operations with neat sketches.	6		
16.	Discuss the properties of cutting fluids.	0		
17.	Explain MIG welding with neat sketch and write one advantage, one disadvantage one application. 7+3=1	0		
18.	Explain ultrasonic welding with neat sketch and write four advantages, one disadvantage. 7+2+1=10	0		
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