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C14-M-306

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

PRODUCTION TECHNOLOGY—I

Time	e: 3 hours]	[Total Marks : 80
Inct	PART—A ructions: (1) Answer all questions.	3×10=30
msı	(2) Each question carries three 1	marks.
	(3) Answers should be brief and st shall not exceed <i>five</i> simple s	traight to the point and
1.	What is Knurling? Mention its purpose.	1½+1½=3
2.	Briefly explain tool signature of single-poin	t cutting tool. 3
3.	Write any three differences between capstan	and turret lathes. 3
4.	Briefly explain working principle of slotter.	3
5.	List out any six work holding devices used in	Planing Machine. 3
6.	Write three types of quick return mechanis	sms 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 detect of welding defects.	tion 3		
10.	Briefly explain principle of gas welding.	3		
	PART—B	0×5=50		
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 operations with a neat sketches.	two 5+5=10		
12.	Explain Swiss type automatic screw machine with neat sketch	ch. 5+5=10		
13.	Draw a neat sketch of standard double housing planer a briefly explain main components.	and 6+4=10		
14.	Draw a line diagram of a shaper, label and explain the parts.	2+4=10		
15.	(a) Draw a neat sketch of internal pull broach.	4		
	(b) Explain any three broaching operations with neat sketch	ies. 6		
16.	Discuss the properties of cutting fluids.	10		
17.	Explain MIG welding with neat sketch and write one advanta one disadvantage one application.	age, 7+3=10		
18.	Explain ultrasonic welding with neat sketch and write fadvantages, one disadvantage. 7+2	our 2+1=10		
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