

C14-M-306

## 4254

## BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2016 DME—THIRD SEMESTER EXAMINATION

## PRODUCTION TECHNOLOGY—I

Time	e: 3 hours ] [ Total Mark	cs : 80
	PART—A 3×	<10=30
Inst	cructions: (1) Answer all questions.	
	(2) Each question carries three marks.	
	(3) Answer should be brief and straight to the and shall not exceed <i>five</i> simple sentences.	point
1.	How the size of engine lathe is specified.	3
2.	List out any six work holding devices used in engine lather	e. ½×6=3
3.	Mention various cutting tool materials used for lathe tools	s. 1×3=3
4.	Write the basic operations done on the shaper.	3
5.	Briefly explain the working principle of slotter with neat sketo	ch. 3
6.	List out various types of planers.	3
7.	How does cutting fluid improve tool life?	3
8.	Write the classification of welding.	3
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9.	Write about the forward and backward gas welding techniques.		
		1½+1½=3	
10.	What are the various defects in welding?	3	
	PART—B	10×5=50	
Instructions: (1) Answer any five questions.			
	(2) Each question carries ten marks.		
	(3) Answers should be comprehensive and the for valuation is the content but not the the answer.		
11.	List different methods of taper turning and explain as methods of taper turning.	ny two 4+3+3=10	
12.	Draw a line diagram of Capstan lathe and describ functions of main parts.	the 4+6=10	
13.	Oraw a line diagram of slotter, indicate its main parts on it and explain them. 4+6=10		
14.	xplain hydraulic system for quick return mechanism of naper with neat sketch. 5+5=10		
15.	(a) Explain the rotary table continuous broaching m with a line diagram.	achine 6	
	(b) Draw a neat sketch of internal pull broach and la parts.	ibel its 4	
16.	(a) Write short notes on the following:	3+3=6	
	(i) Soluble oil		
	(ii) Chemical compounds	3	
	(b) Mention any eight properties of cutting fluids.	½×8=4	
17.	Explain the submerged arc welding with the help of sketch. Write the advantages and limitations of it.		

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18. What is brazing? What are the different methods of brazing?

2+2+3+3=10

Explain any two types of brazing.