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C14-M-306

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BOARD DIPLOMA EXAMINATION, (C-14) OCT/NOV-2016 DME—THIRD SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY—I

Time	e: 3 hours] [Total Marks:	80
Inst	PART—A 3×10=6 *ructions: (1) Answer all questions. (2) Each question carries three marks. (3) Answer should be brief and straight to the point and shall not exceed five simple sentences.	
	Differentiate between live centre and dead centre. List out any six different work-holding devices for centre lathe. $\frac{1}{2} \times 6$	3=3
3.	State the applications of copying lathe.	3
4.	Briefly explain the working principle of slotter.	3
5.	State the function of clapper box in shaping machine.	3
6.	Write different types of table-driven mechanisms used in planer.	3
7.	State the purpose of cutting fluids.	3
8.	Write any three differences between pressure welding and fusion welding.	3

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9.	Briefly explain the principle of flame cutting.	3
10.	List out any six defects in welds.	½×6=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 for valuation is the content but not the l the answer.	
11.	Write short notes on the following lathe operations with sketches: (a) Chamfering (b) Facing (c) Knurling (d) Parting-off	neat 2½×4=10
12.	Draw a neat sketch of turret lathe and label all the parts explain its working.	and 5+5=10
13.	Explain the constructional features of standard planer neat sketch.	with 5+5=10
14.	Explain Whitworth quick return mechanism of a shaper line diagram.	with 5+5=10
15.	(a) State four advantages and four limitations of the broad machine.	ching 4
	(b) Explain the rotary table continuous broaching mad with a line diagram.	chine 3+3=6
16.	Explain different types of lubricant with examples.	10
17.	Explain the principle of gas welding with neat sketch and out different equipments and accessories used in gas weldi	
18.	Explain ultrasonic welding process with neat sketch.	5+5=10