

с14-м-306

4254

BOARD DIPLOMA EXAMINATION, (C-14) MARCH/APRIL—2018 DME—THIRD SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY-I

Time	e : 3 hours]	[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 str and shall not exceed <i>five</i> simple	0 1
1.	Write any six different types of lathe machines	S. $\frac{1}{2} \times 6 = 3$
2.	Mention the cutting tool signature.	3
3.	Define the following terms with respect to the (a) Feed (b) Depth of cut	lathe : $1\frac{1}{2} \times 2=3$
4.	State the working principle of shaper.	3
5.	List any three different types of planers.	1×3=3
6.	Briefly explain the working principle of slotter.	3
7.	State the purpose of lubrication.	3
8.	Write any three differences between pressur fusion welding.	e welding and 1×3=3
/42	54 1	[Contd

WWW.MANARESULTS.CO.IN

- **9.** Briefly explain 'straight polarity' and 'reverse polarity' in arc welding. $1\frac{1}{2}\times2=3$
- **10.** Mention any three types of non-destructive tests used in welds.

 $1 \times 3 = 3$

AA8(A)—PDF

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.** Write short notes on the following lathe parts : 4+3+3=10
 - (a) Bed
 - (b) Tail stock
 - (c) 3-jaw chuck
- 12. Describe the working principle of Swiss-type automatic screw machine with line diagram.5+5=10
- 13. Draw the line diagram of slotter and explain its main parts on it. 5+5=10
- 14. Explain with neat sketch, open- and cross-belt drive mechanisms in planer.5+5=10
- **15.** (a) Classify various types of broaching machines. 5
 - (b) Draw a neat sketch of horizontal broaching machine and label its parts.5
- **16.** Explain the methods of application cutting fluids. 10
- **17.** Write short notes on the following welding techniques : 5+5=10
 - (a) Leftward welding
 - (b) Rightward welding
- 18. With a neat diagram, explain the procedure of submerged arc welding and state any two advantages. 4+4+2=10

 $\star \star \star$

2

/4254

WWW.MANARESULTS.CO.IN