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BOARD DIPLOMA EXAMINATION, (C-09) MARCH/APRIL-2017 **DME—THIRD SEMESTER EXAMINATION**

MANUFACTURING TECHNOLOGY-I

Time : 3 hours]

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[Total Marks : 80

PART—A	3×10=30

Instructions : (1) Answer all questions.

- (2) Each question carries three marks.
- (3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

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7.	List out the equipment necessary of Gas Welding.	3
6.	Write any three factors to be considered while selecting a cutting fluid.	3
5.	State the advantages and limitations of Broaching. $1\frac{1}{2}+1$	¹ /2
4.	List out different types of driving mechanisms in Shaper.	3
3.	List out different work-holding devices used in engine Lathe.	3
2.	Write the tool signature of single-point cutting tool.	3
1.	How is the size of engine Lathe specified?	3

- **8.** State the differences between straight and reverse polarity in arc welding.
- **9.** Write the classification of mechanical comparators. 3
- **10.** Define (a) precision instruments and (b) non-precision instruments. $1\frac{1}{2}+1\frac{1}{2}$

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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.	Draw the line diagram of Capstan Lathe and describe the functions of each part. 5+5
12.	Differentiate Automatic and Semi-automatic Lathes. 5+5
13.	(a) Describe the principle of taper turning with a sketch. 5
	(b) Explain the working principle of slotter. 5
14.	Draw a neat sketch of planer and explain the parts. 5+5
15.	(a) Write a short note on Horizontal Continuous Broaching Machine with a line diagram. $2^{1/2}+2^{1/2}$
	(b) Explain the various methods of application of cutting fluids.5
16.	Describe briefly the submerged Arc Welding and state its advantages and limitations. 6+2+2
17.	Explain ultrasonic welding with a neat sketch. State its advantages and disadvantages. $3+3+2+2$
18.	Explain the working of profilometer with a neat sketch. 5+5
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