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BOARD DIPLOMA EXAMINATION, (C-16) MARCH/APRIL—2018 DME—THIRD SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY-I

Time : 3 hours]

[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.
- **1.** What are different types of a lathes?
- 2. Differentiate between live centre and dead centre of lathe.
- **3.** List out different tool holding devices used on engine lathe.
- **4.** What is the function of shaper? How is the size of shaper determined?
- 5. State the main differences between shaper and planer.
- 6. Write any 3 advantages of welding.
- 7. Sketch an oxyacetylene flame and identity the various zones.
- **8.** Write short notes on (*a*) soluble oils and (*b*) chemical compounds.

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- **9.** List three limitations of gas metal arc welding.
- **10.** Name any six important parts of Milling machine.

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 a line diagram of engine lathe and describe the functions of main parts.
- 12. Write short notes on the following parts :
 - (a) Steady rest
 - (b) Tail stock
 - (c) 3-jaw chuck
- **13.** Explain with neat sketch of crank and slotted lever mechanism of shaper.
- **14.** (a) Draw a neat sketch of planner.
 - (b) Explain the procedure of submerged arc welding.
- **15.** Draw internal pull broach and show various elements on it. Briefly explain them.
- **16.** Explain the construction details of plain milling machine with the help of neat sketch.
- **17.** State the principle of gear hobbing with neat sketch and explain the operation of gear hobbing.
- **18.** Explain the methods of applications of cutting fluids.

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