

с14-м-306

# 4253

### BOARD DIPLOMA EXAMINATION, (C-14) OCTOBER/NOVEMBER-2018 DME – THIRD SEMESTER EXAMINATION

MANUFACTURING TECHNOLOGY - I

Time : 3 Hours ]

[Total Marks: 80

### PART-A

3X10=30

*Instructions* : 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.
- 1. What are the different types of lathes?
- 2. Write the differences between live center and dead center.
- 3. List out different tool holding devices used in engine lathe.
- 4. How are shapers classified?
- 5. Write the working principle of a planer.
- 6. What is the difference between shaper and slotter?
- 7. What is cutting fluid? How do cutting fluids improve machine tool life?
- 8. Write the principle of arc welding.
- 9. List out the equipment's required for oxy-acetylene welding.
- 10. List out any six defect's of welds.

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#### PART-B

10X5=50

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Instructions :

1. Answer any **Five** questions.

- 2. Each question carries **ten** marks.
- 3. Answer should be comprehensive and the criterion for valuation is the content but not the length of the answer
- 11. Draw the line diagram of engine lathe and describe the functions of its main parts.
- 12. Write a short note on
  - i. Centering
  - ii. Turning
  - iii. Facing
  - iv. Knurling
- 13. Explain the construction details of standard shaper with a neat sketch.
- 14. Explain the principle of whitworth quick return mechanism of slotter.
- 15. Draw a neat sketch of vertical broaching machine and explain its working.
- 16. (a) Write the properties of cutting fluids.
  - (b) Write the types of cutting fluids and explain about straight oils.
- 17. Explain tungsten inert gas welding with the help of neat sketch and write its advantages and disadvantages three each.
- 18. Explain ultra-sonic welding with neat sketch and write any three of its applications

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