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C14-M-RAC-306

4254

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH/APRIL—2021

DME - THIRD SEMESTER EXAMINATION

PRODUCTION TECHNOLOGY - I

Time : 3 hours]

[Total Marks : 80

PART—A

4×5=20

- Instructions :** (1) Answer *any five* questions.
(2) Each question carries **four** marks.
(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. How is the size of engine lathe specified?
2. List out six work holding devices used in engine lathe.
3. Differentiate between live centre and dead centre.
4. Write the basic operations done on the shaper.
5. Draw a line diagram of slotter machine.
6. List out various types of planers.
7. List out the application of cutting fluids.
8. Write the classification of welding.
9. Write the differences between soldering and brazing.
10. What are various defects in welding?

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PART—B

15×4=60

- Instructions :** (1) Answer *any four* questions.
(2) Each question carries **fifteen** marks.
(3) Answers should be comprehensive and criterion for valuation is the content but not the length of the answer.

11. Draw a line diagram of engine lathe, indicate the main parts on it and explain them.
12. List different methods of taper turning and explain any two methods of taper turning.
13. Draw a line diagram of shaper, indicate the main parts on it and explain them.
14. Explain the hydraulic system for quick return mechanism of slotter with neat sketch.
15. (a) Explain the rotary table and continuous broaching machines with a line diagram.
(b) Draw a neat sketch of internal pull broach and label its parts.
16. Explain different types of lubricant with examples.
17. Explain the submerged arc welding with the help of neat sketch. Write the advantages and limitations of it.
18. Explain the principle of gas welding with neat sketch and list out different equipments and accessories used in gas welding.

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