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4055

BOARD DIPLOMA EXAMINATION, (C-14)

MARCH /APRIL-2019

DME - FIRST YEAR EXAMINATION

WORKSHOP TECHNOLOGY

Time: 3 Hours

Max. Marks: 80

PART-A

10x3=30M

Instructions : 1) Answer **all** questions. Each question carries **three** marks
2) Answer should be brief and straight to the point and shall not exceed five simple sentences.

- 1) Differentiate between Ripsaw and Cross cut saw.
- 2) Draw a neat sketch of file and name the parts.
- 3) Give the specifications of Reamer.
- 4) Write the specifications Hot and cold chisel.
- 5) State the differences between punching and drifting.
- 6) Mention the commonly used metals in sheet metal work.
- * 7) Listout any six types of patterns used in foundry shop.
- 8) State the purpose of core.
- 9) Draw a sketch of firmer chisel and name its parts.
- 10) Write any six advantages of hot working process.

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PART-B

5x10=50M

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) Describe about the following with neat diagrams.

a) Ratchet brace b) Wheel brace.

12) (a) Draw a neat sketch of depth micrometer and name the parts.

(b) State the principle of Vernier micrometer.

13) Describe the pneumatic hammer with a neat sketch.

14) Explain any four stakes used in sheet metal work with neat sketches.

15) Explain investment casting process with a neat sketch.

16) Draw a neat sketch of Radial drilling machine, label the parts and explain their functions.

17) List out fitting operations and Explain any four of them with neat sketch.

18) Explain any three methods of hot extrusion.

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