

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.

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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