6057
BOARD DIPLOMA EXAMINATION
MARCH/APRIL - 2019
DIPLOMA IN MECHANICAL ENGINEERING
WORKSHOP TECHNOLOGY
FIRST YEAR EXAMINATION

Time: 3 Hours **Total Marks: 80**

PART - A (3m x 10 = 30m)

Note 1:Answer all questions and each question carries 3 marks

2:Answers should be brief and straight to the point and shall not exceed 5 simple sentences

1. Draw the sketches of (a) Mitre Square (b) Marking Knife
2. List out various holding tools used in fitting section
3. Draw a line sketch of a hack saw blade and name the parts. State the specifications of hack saw blade
4. Draw a sketch of Hardie tool and state its purpose
5. Draw a line sketch of upsetting operation in forging and State the principle
6. Write short notes on Hand groover
7. Define Porosity and Plasticity Properties of moulding sand?
8. Write about the Skelton pattern in brief
9. Write short notes on stamping processes
10. List out the hot-working processes

PART - B (10m x 5 = 50m)

Note 1:Answer any five questions and each carries 10 marks

2:The answers should be comprehensive and the criteria for valuation is the content but not the length of the answer

11. Define brace. Briefly explain ratchet brace and wheel brace with line sketches
12. Explain different types of fitting operations
13. **Explain the construction and working of hydraulic press with a neat sketch.**
14. Explain any five sheet metal bending operations with the neat sketches
15. **What is centrifugal casting? with the help of neat diagram describe the true centrifugal casting process**

16. **Draw a neat sketch of radial drilling machine label the parts and explain their functions.**
17. Explain working of band saw with a sketch
18. **List the different types of extrusion and explain any two with sketches**

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