

3043
BOARD DIPLOMA EXAMINATION, (C-09)
MARCH/APRIL - 2019
DIPLOMA IN MECHANICAL ENGINEERING
WORKSHOP TECHNOLOGY
FIRST YEAR EXAMINATION

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

PART - A (10 x 3 = 30 Marks)

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. List three types of joining processes.
2. List out any six holding tools used in Carpentry.
3. State the difference between calliper and divider?
4. List any six defects of forging?
5. What is riveting in sheet metal work?
6. What is the difference between die casting and permanent casting?
7. Sketch a solid pattern?
8. Draw a neat sketch of moulding flask and label the parts?
9. Draw a neat sketch of bench drilling machine and label its parts?
10. What are the disadvantages of cold working processes ?

PART - B (5 x 10 = 50 Marks)

Note 1: Answer any five questions and each question 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. What are different joints used in wood working? Explain any two of them with neat sketches?
12. What is a file? Explain with neat sketches four types of files?
- * 13. Explain with aid of sketches any five types of tongs used in forging shop.
14. Draw neat sketches of any five types of stakes used in sheet metal shop and explain about them.
15. Explain the following properties of good moulding sand
a). Refractoriness b). Permeability c). Plasticity d). Cohesiveness e). Flowability
16. Explain any five operations performed on drilling machine.
17. a) Draw a neat sketch of a vertical band saw and label the parts.
b) Describe the principle of reciprocating saw.
18. Explain with neat sketches a) cold spinning b) cold swaging.

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