6057
BOARD DIPLOMA EXAMINATION
JUNE - 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. State the purpose of the following instruments.
   a.) Sprit level
   b.) Plumb Bob
   c.) Odd leg caliper
2. Draw a line sketch of a cross peen hammer and name the parts
3. Draw a diagram of bench vice used in fitting section and label the parts
4. Write the difference between Swaging and fullering
5. List out the characteristics of fuels used in forging
6. Draw a sketch of snip and label the parts
7. What are the properties of moulding sand
8. List out various types of cores
9. **What is cold working ? List out any two cold working processes.**
10. **Sketch for four high mill and three high mill.**

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. **List out different types of carpentary joints and explain any two with a neat sketches.**
12. **Explain the working principle of combination set with a neat sketch.**
13. State different types of power hammers. Explain the working of spring power hammer
14. Explain any five types of stakes used in sheet metal work with sketches

15. What are the common defects of casting? State their causes and remedies

16. **Draw a neat sketch of radial drilling machine label the parts and explain their functions.**

17. Explain the working of power saw with a sketch and state its advantages

18. 1. (a) State the advantages and disadvantages of hot working over cold working?

    (b) Explain principal of hot extrusion process

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