



C09-M-105/C09-RAC-105

3043

BOARD DIPLOMA EXAMINATION, (C-09)

OCT/NOV—2017

DME—FIRST YEAR EXAMINATION

WORKSHOP TECHNOLOGY

Time : 3 hours]

[Total Marks : 80

PART—A

3×10=30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed *five* simple sentences.

1. List out methods of manufacturing process.
2. State the difference between marking gauge and mortise gauge.
3. What is the difference between reaming and drilling?
4. What are the advantages of forging?
5. Draw a neat sketch of rivet set and explain its use.
6. What is pattern? List out different pattern allowances.
7. What is the difference between dry sand mould and green sand mould?

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8. State the following ^{*} properties of moulding sand :
- (a) Permeability
 - (b) Plasticity
9. Draw the neat sketch of twist drill and label its parts.
10. Distinguish between blanking and punching.

PART—B

10×5=50

Instructions : (1) Answer *any five* questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criterion for valuation is the content but not the length of the answer.

11. (a) Draw a neat sketch of metal jack plane and name the parts.
(b) State the differences between ripsaw and cross-cut saw.
12. (a) Explain the working principle of universal bevel protractor with a neat sketch.
(b) Explain plug gauge and ring gauge with neat sketches.
13. Name different types of power hammers and explain the working of pneumatic hammer with a neat sketch.
14. What are different fastening methods in sheet metal work? Explain any two with neat sketches.
- * 15. Explain various casting defects, their causes and remedies.
16. Draw a neat sketch of radial drilling machine, label the parts and explain their functions.
17. Describe the working of vertical band saw with a neat sketch.
18. (a) What are the advantages and disadvantages of hot working process?
(b) Explain wire drawing process with a neat sketch.

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