

SECTION-C

No. of Printed Pages : 4

Roll No.

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Note: Long answer type questions. Attempt any three questions. 3x10=30

- Q.3 Explain characteristics of forged components.
- Q.4 Explain various safety rules during forging furnace operation.
- Q.5 Discuss forging process in detail.
- Q.6 How colour of material changes in forging.
- Q.7 Compare forging with casting.

5th Sem. / Foun. & Forg.

Subject : Forging Technology - I

Time : 3 Hrs.

M.M. : 100

SECTION-A

Note: Very Short Answer type questions. Attempt any 15 parts. (15x2=30)

- Q.1 a) Name two types of hammers used in forging shop.
- b) Define forging.
- c) What is reduction ratio.
- d) Which fuel is used in forging shop.
- e) What is cold working.
- f) Define bending.
- g) What is decarb.
- h) Define Trimming.

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- i) Name different type of fuels.
- j) Define forging pressure.
- k) Which type of coal is used in forge furnace?
- l) Define Hand Forging.
- m) Name any two types of coals.
- n) Give two examples of hot forging.
- o) Define calorific value of fuel.
- p) Is drawing a cold working process?
- q) What is the function of pocker.
- r) Define burnt forging.
- iii) Name various types of forge furnaces.
- iv) How decarb can be controlled?
- v) Describe shearing process.
- vi) Enlist various uses of forging.
- vii) For which types of components, forging is preferred.
- viii) How furnace temperature can be measured.
- ix) Discuss effect of temperature on material strength.
- x) Why do you need safety in forging.
- xi) How upsetting operation different from drawing.
- xii) Classify various hammers used in forging.
- xiii) Write advantages of cold warping over hot warping.
- xiv) Discuss role of energy in hand forging.
- xv) Write limitations of forging process.

SECTION-B

Note: Short answer type questions. Attempt any ten parts 10x4=40

- Q.2
- i) Write importance of forging techniques.
 - ii) Write effect of squeezing force on properties of materials.

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