

SECTION-C

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

- Q.3 Explain die design for any die casting process with neat sketch.
- Q.4 Explain various edit commands used in AutoCAD.
- Q.5 Explain various patterns with neat sketches.
- Q.6 Explain with sketches the method of making a chisel in a forging shop.
- Q.7 Write short note on any two:
- a) Tolerance grades
 - b) Representation of surface roughness

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Roll No.

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3rd Sem. / Mechanical (Foundry & Forging)

Subject : Casting and Forging Drawing

Time : 3 Hrs.

M.M. : 100

SECTION-A

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

- Q.1
- a) Define R.M S value for a surface
 - b) What is the use of Auto CAD?
 - c) Define allowance
 - d) Draw the symbol for removal of material by machining?
 - e) Name any four types of pollution control devices
 - f) What is the basic function of a mould?
 - g) What are two software used in computer aided drafting?
 - h) What do you mean by H7/g6?

(60)

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- i) What are the different types of fits?
- j) What do you mean by mean roughness index?
- k) What is a foundry?
- l) What is tolerance?
- m) Name four different melting furnaces.
- n) Define absolute co-ordinate system?
- o) What is hole basis system?
- p) Write four commands of Auto CAD.
- q) Define layout.
- r) What is a upper deviation?

SECTION-B

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

- Q.2
- i) Differentiate between surface finish and surface roughness.
 - (ii) Explain match plate pattern with neat sketch.

- (iii) Define unilateral and bilateral tolerances with the help of suitable diagram.
- (iv) What is surface roughness? Explain
- (v) Explain the steps for starting of AutoCAD?
- (vi) Write down the calculations of weight and cost of a cast product.
- (vii) Explain application of machining symbols.
- (viii) Calculate the basic size, type of fit and tolerance of a 100 mm diameter shaft which is revolving normal in bearing.
- (ix) What is the basic need of limits, fits and tolerances?
- (x) What do you mean by inter changeability?
- (xi) What is a mould box? Explain any one mould box with neat diagram.
- (xii) Describe conveyor system material handling with neat sketch.
- (xiii) Draw free hand sketch of flywheel.
- (xiv) Draw a neat sketch of a melting furnace.
- (xv) Draw simple layout of forging shop.