

SECTION-C

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

- Q.3 Write in detail about design & maintenance of tools & dies.
- Q.4 Describe the working principle of presses. Discuss in detail hand press & hydraulic press.
- Q.5 Explain the design and drawing of any one piercing tool.
- Q.6 Explain the design and drawing of any one blanking tool.
- Q.7 Explain the following :
- a) Strip Guiding
 - b) Piloting
 - c) Cutting clearance
 - d) Shear angle
 - e) Land angle

No. of Printed Pages : 4

Roll No.

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3rd Sem. / T & D, CNC, CAD/CAM

Subject : Press Tool Design & 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 press tools.
 - b) What is mean by embossing?
 - c) What are the effects of stripping force?
 - d) What is metal cutting?
 - e) Define restraining force.
 - f) Define friction.
 - g) What is the role of ductility?
 - h) What is bending tool?

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- i) Limitations of top plate.
- j) What is the difference between stress and strain?
- k) Causes of wrinkling
- l) Limitations of bushes.
- m) Define coining.
- n) Define bottom plate.
- o) What are the uses of hydraulic press?
- p) Where the pillars are used?
- q) Write the responsibilities of tool designer.
- r) Advantage of bushes.

SECTION-B

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

Q.2 i) Discuss the economics of tool design.

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- ii) What are the types of friction?
- iii) Differentiate closed die hammer & closed die press.
- iv) What is material handling at work place.
- v) Write the advantages and limitations of progressive tools.
- vi) Write about press working operation.
- vii) Discuss the land and shear angle.
- viii) Discuss the types of presses.
- ix) Where the progressive tools are used?
- x) Advantages & disadvantages of cutting tools.
- xi) What are the classification of dies?
- xii) Discuss the concept of die life.
- xiii) Sketch & explain the punching tools.
- xiv) Discuss the working of pneumatic of tools.
- xv) Advantages of hydraulic presses.

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