

- Q.26 Explain forward extrusion method with diagram
- Q.27 What are the recent trends in rolling?
- Q.28 Explain the importance of press forming in future manufacturing
- Q.29 What are various quenching methods and techniques?
- Q.30 What are the general defects in rolling?
- Q.31 Write a short note on future of metal forming.
- Q.32 Explain the defects and remedies of wire drawing.
- Q.33 Describe preparation of perform for press working.
- Q.34 Write short note on heat treatment in rolling.
- Q.35 What are various types of forging?

#### SECTION-D

- Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)
- Q.36 Explain different heat treatment processes done in forging process.
- Q.37 Describe different extrusion process with neat sketches.
- Q.38 Show various diagrams describing the methods to overcome defect in press forming.

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#### Mech. Engg. (Fabrication Tech) Subject:- Fabrication Processes - 2

Time : 3Hrs.

M.M. : 100

#### SECTION-A

**Note:** Multiple choice questions. All questions are compulsory (10x1=10)

- Q.1 Which of the following is not a press work?
- a) Hand press                      b) Power press
- c) Kinetic press                      d) Hydraulic press
- Q.2 Which of the following is used for press \_\_\_\_\_
- a) Punch                              b) Pin
- c) Extruder                              d) Vehicle
- Q.3 \_\_\_\_\_ is not a defect of sheet metal forming
- a) Tearing                              b) Wrinkling
- c) Neckling                              d) Winding
- Q.4 \_\_\_\_\_ is not a common Rolling defect
- a) Edge cracks                      b) Zipper crack
- c) Alligating                              d) Cold rolling
- Q.5 Which is not a defect in Extrusion?
- a) Trapped air                      b) Surging

- c) Contamination      d) High density

- Q.6 Forging is used for \_\_\_\_\_
- a) Producing critical aircrafts parts
  - b) Transportation equipment
  - c) Both (a) and (b)
  - d) None of the above
- Q.7 In extrusion, the material undergoes \_\_\_\_\_ deformation
- a) Plastic                      b) Elastic
  - c) Liquidity                  d) Solidity
- Q.8 \_\_\_\_\_ is not a heat treatment process
- a) Annealing                  b) Quenching
  - c) Normalizing              d) Forging
- Q.9 Heat treatment to forged parts is needed to \_\_\_\_\_
- a) Bring uniformity in structure
  - b) Make it accurate
  - c) Make it shiny
  - d) Make it heavier
- Q.10 Normalising is cooling at a \_\_\_\_\_ rate then annealing.
- a) Faster                      b) slower
  - c) Same                        d) None of the above

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## SECTION-B

**Note:** Objective type questions. All questions are compulsory. (10x1=10)

- Q.11 Press work is a method to form sheet metal into various shapes by using \_\_\_\_\_
- Q.12 In hot forging metal is heated to a desired \_\_\_\_\_
- Q.13 Name any two defect in rolling
- Q.14 Name two methods to overcome defects in extrusion
- Q.15 Define forging
- Q.16 Name any one recent trends in wire drawing method
- Q.17 Annealing the heating and then cooling the metal at \_\_\_\_\_.
- Q.18 Heat treatment aims at \_\_\_\_\_
- Q.19 Define Mandrel.
- Q.20 Helmets are not made from extrusion (True/False)

## SECTION-C

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions. (12x5=60)

- Q.21 Describe forging and its advantages
- Q.22 Explain heat treatment and give its types.
- Q.23 Explain the wire drawing process with its diagram.
- Q.24 Write the procedural steps on forming in press work.
- Q.25 What are the general defects in metal forming?

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