

- Q.29 What heat treatment process is done in extrusion and why?
- Q.30 Differentiate between annealing and normalizing.
- Q.31 Explain the method of forward extrusion.
- Q.32 Discuss the main defects in wire drawing.
- Q.33 Write the applications of rolling in modern world.
- Q.34 Explain the defects in extrusion.
- Q.35 Define any two heat treatment processes in details.

### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x10=20)

- Q.36 Explain different types of rolling processes with diagram.
- Q.37 Explain all types of extrusion processes with diagrams and their relative advantages.
- Q.38 What are the various general defects in metal forming. Explain in details.

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**5th Sem / Branch : Mech. Engg. (Fabrication Tech.)**  
**Sub. : Fabrication Processes -II**

Time : 3Hrs. M.M. : 100

### **SECTION-A**

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

- Q.1 Tubes can be manufactured by :
- a) Hot forging                  b) Hot Spinning
  - c) Hot Extrusion              d) Hot Rolling
- Q.2 Which of the following types of stresses is applied during the process of road or tube drawing?
- a) Shear                        b) Direct compressive
  - c) Tensile                      d) In direct compressive
- Q.3 Press working is a method to form sheet metal into various shaped by using \_\_\_\_\_.
- a) Press Machine              b) Press Fly
  - c) Press Command             d) Press Hopper
- Q.4 In backward or indirect extrusion \_\_\_\_\_ plunger is used.
- a) Solid                        b) Hollow
  - c) None of the above        d) Both solid and follow
- Q.5 Which of the following part is not made from extrusion

- a) Window frame      b) Doors  
 c) Helmets              d) Rocks
- Q.6 What is the shape of the billet used in extrusion process?  
 a) Cubical              b) Spherical  
 c) Cylindrical           d) Pyramidal
- Q.7 Large size bolt heads are made by \_\_\_\_\_  
 a) Swaging              b) Roll forging  
 c) Hammer forging      d) Upset forging
- Q.8 In rolling, the point of maximum pressure is called  
 a) No slip point        b) Slip point  
 c) Neutral point        d) Extreme point
- Q.9 All of the following methods are used for producing tubes, except:  
 a) Hot spinning          b) Hot extrusion  
 c) Hot drawing          d) Hot piercing
- Q.10 During extrusion of steel, adequate lubrication around the billet is done by providing a coating of  
 a) Vegetable oil        b) Graphite  
 c) Water                d) Powdered glass

### **SECTION-B**

**Note:** Objective type questions. All questions are compulsory.  $(10 \times 1 = 10)$

- Q.11 Define forgability.  
 Q.12 Define coining.

- Q.13 What is drawing process?  
 Q.14 Name any two products made by wire drawing process.  
 Q.15 Shaving is the process in which \_\_\_\_\_.  
 Q.16 Define press working.  
 Q.17 Name two die materials.  
 Q.18 Define rolling.  
 Q.19 Define extrusion ratio.  
 Q.20 Define pre-crytallisation.

### **SECTION-C**

**Note:** Short answer type questions. Attempt any twelve questions out of fifteen questions.  $(12 \times 5 = 60)$

- Q.21 Explain the principle of metal cutting in press work with diagram.  
 Q.22 Explain the process of manufacturing tubes with a mandrel.  
 Q.23 Explain the working of 5 high roll mill.  
 Q.24 Write the methods to overcome defects in extrusion.  
 Q.25 Discuss the recent trends in press forming.  
 Q.26 Why heat treatment is necessary in wire drawing? Explain.  
 Q.27 Give advantages of heat treatment in wire drawing process.  
 Q.28 What are the general defects in rolling? Show any one in diagram.