

## **All The best For Exams - Rejinpaul Team**

**Anna University Exams Nov / Dec 2017 – Regulation 2013**  
**Rejinpaul.com Unique Important Questions – 3rd Semester BE/BTECH**  
**ME6302 - MANUFACTURING TECHNOLOGY-I**

### **Unit 1**

1. Explain with neat diagram (a) squeeze Jolting machine (b) sand Slinger machine(c) Jolting Machine
2. Classify the different types of moulding sand and explain
3. Describe the constructional feature and operation (a)Cupola furnace (b) Blast furnace
4. Discuss various casting method with neat diagram
5. Explain the various types of pattern used in Mould Making and preparation of sand moulding process

### **Unit II**

1. Explain with Advantages, Disadvantages and Application (a) Gas Welding (b) Arc Welding (c) MIG and TIG Welding (d)

#### **Electro Slag Welding**

2. Explain the various types of oxy-acetylene flames with sketches
3. Explain about the equipment and operation of GTAW process. State Advantages and Disadvantages of GTAW
4. Explain the principle and application (a)Friction Welding Process. (b) Friction Stir Welding
5. Explain with Advantages, Disadvantages (a) Plasma Arc Welding process (b) Thermit welding Process (c) Plasma Arc Welding process (d) Resistance Welding Process (e) submerged arc welding process.

### **Unit III**

1. Explain hot working and cold working processes
2. Explain (a) open die forging (b) drop forging (c) die forging.
3. Discuss the types of Rolling mills.
4. Explain with neat sketches (a)process of tube drawing of metals (b) process of Rod Drawing
5. Analyse and Sketch variation in pressure during the Extrusion process by direct and indirect methods

### **Unit IV**

1. Discuss Sheet metal Characteristics in detail
2. Explain (a) Shearing(b) Blanking(c) clearance in shearing(d) Spring back in bending
3. Describe with a neat sketch the various type of stretch forming operations
4. Explain with a neat sketch (a)hydro forming (b) Rubber Pad Forming (c) peen forming (d) Explosive Forming (e) Micro forming (f) super plastic forming (g) Magnetic Pulse Forming
5. Describe the nibbling and notching operations

### **Unit V**

1. Explain Properties and various types of Plastics
2. Explain (a) injection blow moulding process (b) injection moulding process (c) Extrusion blow moulding process (d)Blown- film extrusion process.(e) blow moulding (f) rotational moulding (g) transfer moulding
3. Explain the working principle of plunger and screw machines
4. Describe various types of thermoforming process.
5. Explain the structure of thermo plastic and thermosetting plastics.

### **Part C**

1. Formulate plasma arc welding process with transferred arc and non-transferred arc with suitable applications.
2. Explain a suitable process to form heads in fasteners such as nails and bolts
3. Explain the steps involved in manufacturing metal kitchen sinks with neat sketches
4. Discuss a suitable manufacturing process for producing plastic bottles and plastic foot balls
5. Explain a method for manufacturing, honeycomb panels for aircraft wings

**Questions Are Expected for University Exams This May or may Not Be Asked for Exams**

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