



- Q.5 Which of following is not a polymeric materials  
 a) Clay                              b) HDPE  
 c) PVC                                d) Rubber
- Q.6 Which of the following is a metal  
 a) Iron                                b) Lead  
 c) Mercury                          d) All of these
- Q.7 Which of following material is used due to its low weight  
 a) Steel                                b) Pig iron  
 c) Cast iron                          d) Aluminum
- Q.8 In stainless steel composition of chromium ranges:  
 a) 1 to 10%                          b) 16 to 25%  
 c) 0.03 to 0.25%                    d) 1 to 2%
- Q.9 Alloy means mixture of  
 a) Metal and metal                b) metal and Non metal  
 c) Both A to B                      d) None of the above
- Q.10 Ductility is considered a \_\_\_\_\_ property.  
 a) Tensile                            b) Compressive  
 c) Electrical                        d) Thermal

### SECTION-B

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

- Q.11 Define metalloids.  
 Q.12 Define non-ferrous metals

- Q.13 Name any one Engineering materials.  
 Q.14 Write any one advantage of non-ferrous metals  
 Q.15 Write any one use of lead.  
 Q.16 Define tensile strength.  
 Q.17 Write full form of PVC  
 Q.18 Write one application of wrought iron.  
 Q.19 Define dielectric strength.  
 Q.20 Write one use of Polypropylene.

### SECTION-C

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

- Q.21 Explain in brief Need of Engineering materials in chemical industry.  
 Q.22 Differentiate between metals and non-metals.  
 Q.23 Write short note on thermal conductivity in brief.  
 Q.24 Write uses of various engineering materials used in chemical industries.  
 Q.25 Write important properties of white cast iron  
 Q.26 Write a short note on steel and its types.  
 Q.27 Differentiate between ferrous and non-ferrous metals.  
 Q.28 Explain any five properties of aluminum.  
 Q.29 Write different uses of nickel as an Engineering materials.