

Mid Term Examination

B.Tech. – 1st Semester
Paper code: ES-119
Time: 1.5 hours

March, 2022
Subject: Manufacturing Process
Max. Marks: 30

Note: Q. No. 1 is compulsory. Attempt any two questions from the rest. Assume any data if not given in the question paper.

- Q1. (a) Define manufacturing. CO1 (2x5=10)
(b) Explain functions of chills and chaplets. CO1
(c) Define core and its function? CO1
(d) Explain the necessity of flux? CO2
(e) Explain welding. CO2
- Q2. (a) Explain the different zones of Cupola furnace with suitable sketch. CO1 (5)
(b) Explain with help of neat sketch construction and working of submerged arc welding. CO2 (5)
- Q3. (a) State and explain casting defects and causes with neat diagrams. CO1 (5)
(b) Explain welding defects and causes with suitable diagrams. CO2 (5)
- Q4. (a) Explain the role and importance of materials and manufacturing for the growth of any nation. Explain with suitable example. CO1 (5)
(b) Describe with the neat sketch construction and working of resistance spot welding. CO2 (5)