

SE SEM-III (C - scheme) / Nov 2025 / 18-11-25

QP
Code: 95455

Branch: MECH

Time: 3 hours

Max. Marks: 80

Note-

1. Question one is compulsory.
2. Solve any three out of remaining five.

- Q.1 Write Short notes with sketch wherever applicable. (Solve any Four) 20**
- a Pattern allowances
 - b Thermit welding
 - c Rolling defects
 - d Gear shaving
 - e Internet of things
- Q.2 a What is the riser? Explain different functions and types of riser. Also, explain various design principles for riser. 10**
- b Explain gas welding and different types of flames produced in detail with neat sketch. 10**
- Q.3 a Describe different sheet metal operations with neat sketches 10**
- b Write short note on column and knee type milling machine 10**
- Q.4 a What are various methods of producing threads, explain thread cutting operation on lathe machine 10**
- b Explain stepwise procedure of powder metallurgy. 10**
- Q.5 a Describe the investment casting process with neat sketches. 10**
- b Compare arc, gas and resistance welding. Also list their different types 10**
- Q.6 a Compare the following 10**
1. Lapping and honing
 2. Hot chamber and cold chamber die casting
- b List various nontraditional machining methods and explain electron beam machining in detail 10**

95455