

SE sem III / Mech + Auto / Choice Based

Sub: PP-I

Time: 3 Hours

Q. P. Code: 26345

[Total Marks: 80]

2nd half 2017

13/12/2017

N.B. A. Question no.1 is compulsory.

B. Attempt any three questions out of remaining five questions

C. Figures to right indicates full marks

1. Solve any Four: [20]
 - a) What are Transfer machines?
 - b) Explain Rolling defects.
 - c) How is rod made by extrusion?
 - d) With neat sketch explain the working principle of plastic injection moulding process
 - e) Differentiate Shaper and Planner
2. a) Differentiate the following: [10]
 - i) Pattern and core boxes.
 - ii) Lapping and Honingb) Differentiate between TIG & MIG welding. [5]
c) Differentiate between soldering & brazing. [5]
3. a) Explain rotary swaging with its sketch. [6]
b) Describe Calendaring process for plastic with a neat labeled sketch. [6]
c) How are Milling Machines classified with a neat sketch? [8]
Describe any one Milling Machine.
4. a) Explain centreless grinding operation [5]
b) Differentiate between core and core print. [5]
c) What is meant by riser? State the functions of riser. [5]
d) Discuss friction welding with its applications. [5]
5. a) State various vertical machining centres. Describe any one in detail [8]
b) Differentiate between open loop and closed system in CNC machines. [6]
c) Explain vacuum forming process of polymers. [6]
6. a) What is meant by forging? Differentiate closed and open die forging. [5]
b) Write Short note on following: [10]
 - i) Machine Tools Classification
 - ii) Automatic machines
- c) Compare transfer moulding and compression moulding. [5]
