Q. P. Code: 26345

[5]

Time: 3 Hours [Total Marks: 80]

B. Attempt any three questions out of remaining five questions	
C. Figures to right indicates full marks	
 Solve any Four: What are Transfer machines? Explain Rolling defects. How is rod made by extrusion? With neat sketch explain the working principle of plastic injection moulding process Differentiate Shaper and Planner 	[20]
2. a)Differentiate the following:i) Pattern and core boxes.ii) Lapping and Honing	[10]
b) Differentiate between TIG & MIG welding.	[5]
c) Differentiate between soldering & brazing.	[5]
3. a) Explain rotary swaging with its sketch.b) Describe Calendaring process for plastic with a neat labeled sketch.	[6] [6]
c) How are Milling Machines classified with a neat sketch? Describe any one Milling Machine.	[8]
4. a) Explain centreless grinding operationb) Differentiate between core and core print.c)What is meant by riser? State the functions of riser.d) Discuss friction welding with its applications.	[5] [5] [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: i) Machine Tools Classification ii) Automatic machines	[10]

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

c) Compare transfer moulding and compression moulding.