Q. P. Code: 26345

Time: 3 Hours

[Total Marks: 80]

N.B.	A. Question no.1	is compulsory.
*	in Augmontion	is compaison j.

- B .Attempt any three questions out of remaining five questions
- C. Figures to right indicates full marks

1. Solve any Four:	[20]
<ul><li>a) What are Transfer machines?</li><li>b) Explain Rolling defects.</li></ul>	
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 Honing	
b) Differentiate between TIG & MIG welding.	[5]
c) Differentiate between soldering & brazing.	[5]
3. a) Explain rotary swaging with its sketch.	[6]
<ul> <li>b) Describe Calendaring process for plastic with a neat labeled sketch.</li> </ul>	[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]