Q. P. Code: 24188

<b>N.B.</b> A. Question no.1 is <b>compulsory</b> .	[Total Marks: 80]
B .Attempt any three questions out of remaining five question	ns
C. Figures to right indicates full marks	
1. a) Classify various welding process.	[5]
b) Explain Rolling defects.	[5]
c) How is rod made by extrusion.	[5]
d) Compare transfer moulding and compression moulding.	[5]
2. a] Differentiate the following:	[10]
i) Pattern and core boxes.	
ii) Wing core & hanging type of cores	
b] Discuss friction welding with its applications.	[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 ske	etch. [6]
c] Describe the basic steps of powder metallurgy process. Discuss	applications, advantages
and disadvantages of powder metallurgy.	[8]
4. a] What is meant by Sintering.	[5]
b] Differentiate between core and core print.	[5]
c] What is meant by riser? State the functions of riser.	[5]
d] Differentiate between TIG & MIG welding.	[5]

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5. a] List the different NDT methods?Explain ultrasonic process method of inspection.	
b] Explain with neat sketch "Radiographic Non-destructive test"	[6]
c] Expalin vaccum forming process of polymers.	[6]
6. a] With neat sketch explain the working principle of plastic injection moulding process.	[5]
b] Write Short note on following:	[10]
i) Centrifugal casting.	
ii) Transfer moulding process	
c] What is meant by forging? Differentiate closed and open die forging.	[5]