03:00 pm - 06:00 pm

PRODUCTION PROCESS-I

Q. P. Code: 24188

N.B. A. Question no.1 is compulsory .	[Total Marks: 80]
B .Attempt any three questions out of remaining five questions	
C. Figures to right indicates full marks	
1. a) Classify various welding process.	[5]
b) Explain Rolling defects.	
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 sketc	h. [6]
c] Describe the basic steps of powder metallurgy process. Discuss ap	plications, advantages
and disadvantages of powder metallurgy.	[8]
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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. [8]
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]