QP Code: 50738

[06]

[06]

03 Hours [80 Marks]	
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	
Q1 Write a short note on any four of the following	[20]
a. Compare brazing and soldering.	
b. CO ₂ moulding	
c. Thread rolling	
d. Explosive welding	
e. Lapping and Honing	
O2 - Wish	[00]
Q2. a. With a neat sketch explain the principle and working of thermit welding. Also discuss	[08]
its advantages, limitations and application.	[06]
b. Differentiate between the open loop and close loop system.	[06]
c. Explain the types of flames used in gas welding.	[06]
Q3. a. Describe the desirable properties of pattern materials.	[08]
b. Describe machining the operations performed on lathe machine.	[06]
c. What are automatic machines? Write its classification.	[06]
	[00]
Q4. a. Describe the classification, selection procedure and application of drilling machine.	[08]
b. Explain blow moulding process with a neat sketch.	[06]
c. Differentiate between pattern and core box.	[06]
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Q5. a. Discuss various defects found in rolled parts.	[80]
b. Define weldability and describe the factors affecting it.	[06]
c. Differentiate between hot working and cold working processes.	[06]
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Q6. a. With the help of a neat sketch explain the gating system in casting process.	[80]

b. Define the terms 'Spread', 'Elongation' and 'Draft' with respect to rolling process.

c. Compare thermoplastics and thermosetting plastics.