

B. Tech.

ROLL NO.....

Manufacturing processes

Paper No: AE-204

Paper ID-A0710

Allowed: 3 Hours

Maximum Marks: 60

NOTE:

1. Section -A is compulsory.
2. Attempt any four questions from Section – B and any two questions from section – C.

Section – A

Q.NO .1 (a)	Write the advantages of machine molding.	02
(b)	Explain the importance of permeability of molding sands.	02
(c)	Differentiate between soldering and brazing.	02
(d)	What is pin hole porosity?	02
(e)	What is tool signature? Explain with the help of a suitable example.	02
(f)	Give any two differences between a shaper and planer.	02
(g)	What is the difference between wire and tube drawing?	02
(h)	Enlist four welding defects.	02
(i)	What are the purposes of coolant in machining?	02
(j)	With neat sketch define centrifugal casting.	02
Section – B		
Q.NO. 2	With suitable diagrams explain shell molding process. Also write the advantage and limitations of this process.	05
Q.NO. 3	What is resistant welding? Explain its various types with the help of neat sketches.	05
Q.NO. 4	Define welding electrode. Classify welding electrode in detail. Enlist the factors responsible for electrode selection.	05
Q.NO. 5	What are different types of rolling mills? With suitable diagrams explain them.	05
Q.No. 6	Sketch and explain the working of a plain column and knee type milling machine.	05
Section – C		
Q.No. 7	What are the various casting defects? Discuss their causes and remedies.	10

Q.No.8	What is centreless grinding? Explain the types of centreless grinding. State the advantages and limitation of centreless grinding.	10
Q.No.9	Write short note on a. Electroslag welding b. Metal spinning	6+4