

Roll No.

Total No. of Questions : 09]

[Total No. of Pages : 02

B.Tech. (Sem. – 4th)
MANUFACTURING PROCESSES
SUBJECT CODE : AE - 204
Paper ID : [A0710]

Time : 03 Hours

Maximum Marks : 60

Instruction to Candidates:

- 1) Section - A is **Compulsory**.
- 2) Attempt any **Four** questions from Section - B.
- 3) Attempt any **Two** questions from Section - C.

Section - A**Q1)****(10 × 2 = 20)**

- a) What is core baking?
- b) What are the different allowances for pattern?
- c) Enlist the factors responsible for electrode selection.
- d) How welding processes are classified?
- e) What is the difference between press forging and drop forging?
- f) Write the various products of rolling.
- g) What is lathe dog? For what it is used?
- h) With suitable diagram define deep drawing process.
- i) Enlist the common rolling defects.
- j) State the advantages of use of coolant in machining?

Section - B**(4 × 5 = 20)****Q2)** What are different types of pattern? Explain with suitable diagrams.**Q3)** With neat sketches explain various operations performed on presses.

- Q4)** What is indexing? Explain method of simple indexing by means of diagram showing the index head.
- Q5)** What is gas welding? Explain the various types of flames used in gas welding.
- Q6)** Explain various types of forging defects with their causes and remedies.

Section - C

(2 × 10 = 20)

- Q7)** Explain the die casting process. Compare cold chamber die casting process with hot chamber die casting process. Why Aluminium(Al) is preferred to be produced by the cold chamber process?
- Q8)** What is magnetic arc blow? Explain its various types. Write the causes of arc blow. How do you avoid it?
- Q9)** Write short note on
- (a) Cutting tool material.
 - (b) Extrusion process.

