CT Inst. of Eng

Roll No.		46	-16	

Total No. of Questions: 09

B.Tech. ((ME)/(IE-2008-2009 Batch)/(PE-2004-2010 Batch) (Sem.-3rd)

MANUFACTURING PROCESS-I

Subject Code: PE-209 Paper ID: [A0806]

Time: 3 Hrs.

Max. Marks: 60

Total No. of Pages: 2

INSTRUCTION TO CANDIDATES:

- SECTION-A is COMPULSORY consisting of TEN questions carrying TWO marks each.
- 2. SECTION-B contains FIVE questions carrying FIVE marks each and students has to attempt any FOUR questions.
- SECTION-C contains THREE questions carrying TEN marks each and students has to attempt any TWO questions.

SECTION-A

I. Write briefly:

- a) Classify the welding processes.
- b) Write down the stages of casting.
- c) What is are blow?
- d) What are the main ingredients of moulding sand?
- e) Write down the functions of gating.
- f) Classify the electrodes used in various welding processes.
- g) Write down the principle of eletroslag welding.
- h) Define modulus of a casting.
- i) Write down the products of die casting, centrifugal casting, shell moulding and continuous casting.
- j) Define permeability of moulding sand.

SECTION-B

- 2. State the similarities and dissimilarities of casting
- What are the functions of a riser? Write dov design.
- 4. Compare MIG and TIG welding processes.
- Explain briefly the factors that should be consider welding process.
- Name any three pattern allowances. State th provided.

SECTION-C

- Explain briefly the principle and major equipme gas welding. Also state the advantages and limita
- Compare investment casting and shell moulding of view of method and applications.
- 9. Write short notes on:
 - (a) Welding defects
 - (b) Casting defects.

