QUESTION PAPER CODE- 52018

University Institute of Engineering & Technology

(Recognised Under Section 2(f) and 12B of UGC)

Kurukshetra University, Kurukshetra

Roll No. -

THEORY EXAMINATION – MAY 2019	
B.TECH - ME	SEMESTER - II

TIME – 3 Hrs.

M.M. - 75

PAPER- ME-101

SUBJECT– Manufacturing Technology and Processes

Note: All questions in Part-A and Part-B are compulsory. Attempt any four questions from Part-C selecting at least one from each unit.

PART-A (15 Marks)

Q. No. – 1 Answer the following questions carrying one mark each. 15x1=15

(i)	What do you understand by First Aid
(ii)	Define industrial safety.
(iii)	List the three materials used for pattern.
(iv)	Define green sand.
(v)	Explain piercing
(vi)	What is meant by core assembly?
(vii)	Discuss core making.
(viii)	Define gating system.
(ix)	What is hot working process?
(x)	What do you understand by welding defects?
(xi)	Discuss the reasons for discontinuous chip.
(xii)	What is fettling?
(xiii)	How brazing is different from soldering?
(xiv)	What is blanking?
(xv)	Write any three angle of single point cutting tool.

PART-B (20 Marks)

	UNIT-I	
2	What is accident? Explain its types.	5
	UNIT-II	
3	Explain the various zones in cupola furnace.	5

	UNIT-III	
4	What is plant layout? Explain any one of plant layout with diagram.	5
	UNIT-IV	
5	Describe the types of flame in gas welding along with the different zones.	5

PART-C (40 Marks)

	UNIT-I	
6	(a) Differentiate between the mild steel and high carbon steel. (b) Explain the various properties of engineering materials in detail.	5 5
7	(a) Discuss the different methods of safety (b) Define manufacturing process. Explain the various classifications of manufacturing processes.	5 5
	UNIT-II	
8	Define casting and its types. Explain the various casting defects with causes and remedies.	10
9	a) Explain the basic steps of casting process. b) Describe the gating system in sand casting with a neat diagram.	5 5
	UNIT-III	
10	(a) Differentiate between the Extrusion and Wire drawing (b) What is forging? Explain the different types of forging.	5 5
11	(a) What are the advantages of cold working process over hot working process? (b) What do you mean by sheet metal working? Explain the different sheet metal operations.	5 5
	UNIT-IV	
12	Discuss the principle of resistance welding. Explain the seam and spot welding with diagram.	10
13	Explain in detail the construction and working of a Lathe machine. Also describe the various operations performed on a lathe machine.	10