(Following Paper ID	and Roll No	, to be	fille	d in	you	ur A	nsv	ver	Bo	ok)
PAPER ID: 4304	Roll No.				•		F F 1		٠٠.	
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B. Tech. And the Manager (1)

(SEM. II) THEORY EXAMINATION 2010-11 MANUFACTURING PROCESSES

Time:	2 Hours Total Marks: 50
Note:	(i) Attempt all questions.
	(ii) Marks allotted to each question are indicated on right
	hand side.
	SECTION—A
l. Th	nis section contains 10 questions. All questions are compulsory.
	(10×1=10)
(a)	Working mechanism of shaper is known as
(b)	ke TREE BETTE
(c)	Cylinder used for storing Acetylene gas is first filled with
(d)	Cast iron fails showing facture.
.(e)	<u> </u>
(f)	Solder is an alloy of Tin and
10	

- (g) Shrinkage allowance on master pattern is
- (h) Tungsten filament on electric bulbs are made by
- (i) Property of helps the casting to be easily taken out from the moulding sand.
- (j) In galvanizing process the surface is coated with

SECTION-B

2. Attempt any three questions :

 $(3 \times 5 = 15)$

- (a) Explain the following:
 - (i) Toughness
- (ii) Hardness
- (iii) Malleability
- (iv) Fatigue
- (v) Plasticity
- (b) What are brasses? List various types of brasses giving their uses.
- (c) What do you understand by heat treatment of carbon steels? Explain any Process in detail.
- (d) Draw a labeled diagram of universal milling machine. Also list various operations performed on it.
- (e) Write a note on the following:
 - (i) Types of Plant layout
 - (ii) Cement Concrete

SECTION-C

- Question (a) is compulsory and carries Seven marks. (25)
 Attempt any three more questions from the remaining (all carry six marks):
 - (a) Draw labeled diagram of three types of flames used in Oxyacetylene gas welding. Also give their uses.
 - (b) Explain Powder metallurgy process. Also give its advantages and applications.
 - (c) What are the important properties which are essential in a good moulding sand? Explain in detail.
 - (d) What do you understand by Extrusion process? What are the items made by this process? Explain in detail giving suitable examples.
 - (e) What are the ingredients of moulding sand? What is the effect of particle size on surface quality of casting?
 - (f) Write notes on:
 - (i) Composite materials
 - (ii) Plastics.