(Following Paper ID and Roll No	-
PAPER ID 4 04 Rol No.	

B. Tech.

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

Time : 2	Hours Total Ma	rks : 50
Note: ((i) Attempt all questions.	
. ((ii) Marks allotted to each question are indicated hand side.	i on right
	SECTION—A	
1. This	section contains 10 questions. All questions are con	npulsory.)×1=10)
(a)	Working mechanism of shaper is known as	•••••
(b)	One of the specifications to define the size of lathe	is
(c)	Cylinder used for storing Acetylene gas is first fi	lled with
(d)	Cast iron fails showing facture.	e ²
(e)	Metals having property can be easi into wires.	ly drawn
(f)	Solder is an alloy of Tin and	

(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	
Atte	empt any three questions: (3×5=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.