Roll No.

Total No. of Page: 3

(iii) High speed steel.

(iv) High carbon steel.

BT-1/DX-8018

ME-103E: Manufacturing Process

Time: 3 Hours Maximum Marks: 100

Note: Attempt Five questions in all, selecting at least one question from each unit

UNIT-I

Q-1 (a) What do you mean by manufacturing process? How do you classify the various manufacturing process?

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- (b) What is 'Safety'? Why is it necessary and how it pay?
- Q-2 Discuss the composition and application of the following:
 - (i) Mild Steel.
 - (ii) Medium carbon steel.

UNIT-II

Q-3 Write a note on the following:

20

- (i) Cope and drag pattern.
- (ii) Shrinkage and draft allowance.
- (iii) Hot tears.
- (iv) Pin hole porosity.
- (v) Follow up board pattern.
- Q-4 Explain with the help of neat sketch the following elements of gating system: 20
 - (i) Runner.
 - (ii) Riser.
 - (iii) Gates.
 - (iv) Pouring Basin.

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Contd.

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Contd.

UNIT-III

Q-5	(a)	What is forming process? How it is done? What its merits and demerits?	are 8
	(b)	Write short notes on	12
	(i)	Punching and blanking.	
	(ii)	Shearing and piercing.	
Q-6	(a)	Define extrusion process. Compare direct extrusion and indirect extrusion with illustration. What impact extrusion? Give its product applications.	t is
	(b)	Discuss the difference Hot and Cold work process.	king 6
		UNIT-IV	
Q-7	How do you classify welding process? Explain the MIG		
•	welding. What is the difference between TIG and N		
	wel	ding?	20
Q-8	(a)	What are the desirable characteristics of a cool	ant?
		Give their uses.	6
٠	(b)	What are the various types of chips with sketch?	neat 9
	(c)	Write a short note on tool wear.	5
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