Roll No.	Total No. of Doggo . og
Total No. of Questions: 09	Total No. of Pages: 02
B.Tech.(ME) (2011 Batch) (	Sem -3)
MANUFACTURING PROCE	SSES-I
Subject Code: BTME-30	
Paper ID : [A1142]	
Time: 3 Hrs.	Max. Marks: 60
INSTRUCTION TO CANDIDATES :	
<ol> <li>SECTION-A is COMPULSORY consisting of TEN queach.</li> </ol>	uestions carrying TWO marks
2. SECTION-B contains FIVE questions carrying FIVE has to attempt any FOLD questions.	
"" to attempt any rook questions.	
<ol> <li>SECTION-C contains THREE questions carrying T has to attempt any TWO questions.</li> </ol>	EN marks each and students
7 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	65
SECTION-A	25
. Write short notes on :	
write short notes on:	
a) What is Thermit Welding?	
b) What do you understand by directional solidification?	
c) What are core prints?	
vina are core prints?	
d) The tool used for lifting the pattern from the mould is cal	lled
e) Flux is used in Soldering to	
f) Define Weldability.	
2) Zomio Weldability.	
g) Write the difference between Runner and Riser.	
h) What effect does the carbon content of steel have on weld	dability?
i) Differentiate between consumable and non consumable e	lectrode.
j) Write differences between Brazing and Soldering.	
Jim afficiences between brazing and soldering.	

- 2. Why a core is used in easting process? Explain the process of core making step by step with sketches.
- 3. Explain Centrifugal casting with a neat diagram. Discuss its applications also.
- 4. Explain in detail about Friction stir welding with neat sketch.
- 5. Give the classifications of manufacturing processes. Discuss with the examples.
- 6. Discuss various welding defects. Write the causes for these defects. Mention their remedies.

## SECTION-C

- 7. Enumerate the various materials used for making patterns, state their applications, and essential points to be considered while deciding the type of pattern.
- 8. Explain in detail about TIG welding process with neat sketch. What are the merits and demerits? Write its applications.
- 9. Explain destructive and non destructive testing for casting and welding processes.