



SE-8298

B. E. - III (Mech.) (Sem. V) Examination

April / May - 2011

Manufacturing Process - II

(New Syllabus)

Time : 3 Hours]

[Total Marks : 100

Instructions :

(1)

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य कभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="B. E. - 3 (MECH.) (SEM. 5)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MANUFACTURING PROCESS - 2 (NEW)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="8"/> <input type="text" value="2"/> <input type="text" value="9"/> <input type="text" value="8"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="NIL"/>	
Student's Signature	

- (2) Attempt all questions.
- (3) Figures to the right indicate full marks.
- (4) Programmable calculator is not allowed.
- (5) Draw appropriate sketches wherever required.

- 1 (a) Answer the following questions : (any four) 10
 - (1) What Chaplets ? How does it support to core ?
 - (2) What is core print ?
 - (3) Why the section of a sprue reduces downwards ?
 - (5) Give the importance of draft in shearing operations ?
 - (6) What is draft allowance ? Explain it.
 - (b) What is cold shut ? How it is created in casting ? 5
Show its remedy.
 - (c) Differentiate between Hot working with cold working 5
process.
 - 2 (a) Explain the method of determining moisture content 8
in the moulding sand.
 - (b) Explain "Permanent moulding casting." - Process. 7
- OR
- (b) Explain different properties of moulding sands. 7

- 3** Write short notes on : (any **three**) **15**
- (1) Wire drawing
 - (2) Lapping process
 - (3) Skeleton pattern
 - (4) Blow moulding related to plastic technology
 - (5) Metal working defects.
- 4** Answer the following questions : **20**
- (1) Explain type of flames used in gas welding process.
 - (2) Distinguish between Thermosetting plastic and Thermoplastics.
 - (3) What are the advantages and disadvantages of gas welding process ?
 - (4) Explain briefly equipment used for oxy-acetylene gas welding.
 - (5) Explain briefly polishing process.
 - (6) Define Electrode used in welding process.
 - (7) What are the abrasives used for lapping process ?
 - (8) State the function of flux used in Arc welding process. State the advantages.
 - (9) Explain polarity used in arc welding process.
 - (10) What are the advantages and disadvantages of gas welding process ?
- 5** Answer any **four** : **12**
- (1) Compare TIG and MIG welding.
 - (2) Explain Flash butt welding.
 - (3) Explain Transfer Moulding process.
 - (4) Explain honing process.
 - (5) Explain Seam welding.
- 6** Answer any four : **18**
- (1) Explain with neat sketch welding defect and their remedies.
 - (2) Explain with neat sketch electrosag welding.
 - (3) With neat sketch explain injection molding state advantages over compression molding.
 - (4) With neat sketch explain plasma arc welding process.
 - (5) Explain with neat sketch Atomic Hydrogen gas welding. Why hydrogen is used ?