Seat No.:				Enrolment No		
Subje	ect N	BE- V th SEMESTEI ode: 152103 ame: Foundry techi	R–EXAMII	OGICAL UNIVERSITY INATION – MAY/JUNE - 2012 Date: 04/06 Total Mari		
Time Instr		30 pm – 05:00 pm				
1. 2.	Atte Mal	ons. mpt all questions. The suitable assumptions ares to the right indicate				
Q.1	(a) (b)	Draw neat diagram show How do you classify for	_	s steps of operations in Foundry unit. plain.	07 07	
Q.2	(a)	Give a list of pattern making materials? What factors would you consider for selecting material for pattern making? Explain with example.			07	
	(b)	Name various allowanc significance of each allo		ed during pattern making. Explain the	07	
	(b)	Evaloia the was of wood		OR	07	
	(b)	Explain the use of wood	i aliu woou	products as pattern making materials.	07	
Q.3	(a)	Explain in brief the salient features of centrifugal casting process. What are the advantages and limitations of centrifugal casting process?				
	(b)	Rearrange the following terms in Column -1, Column -2 in such a way as to make a pair of term related to one another				
		C	olumn- 1	Column- 2		
		Use of Sodiu Chill	etor et/ Core print ferrosilicon m Silicate Fest ability	Nishiyama Process Binder in Molding Sand Carbon-di-oxide Process Quality control Test for Grey Cast Iron Core Support Sand Testing Centrifugal Casting Process		
Q.3	(a)	What do you mean by c		OR eeding resistance? How is this	07	
-	(b)	concept utilized in riser	ing practice	•	07	

		OR	
Q.3	(a)	What do you mean by centre line feeding resistance? How is this	07
concept utilized in risering practice?		concept utilized in risering practice?	
	(b)	Explain what is meant by directional solidification. What are the	07
	. ,	methods used for promoting directional solidification?	
0.4	(a)	What is inoculation? Discuss the mechanism of inoculation of gray cast	07
	()	iron and the actual inoculation practice in shop floor.	
	(b)	Give the salient features of shell moulding	07
	(-)	OR	
		SK	

Q.4	(a)	(a) How do gasses dissolve in molten metal? Discuss the method(s) of removal of gases from liquid aluminium?	
	(b)	Give a list of defects caused due to gases in molten metals.	07
Q.5	(a)	What is the role of gating design in casting practice?	07
	(b)	Compare no-bake, air set sand core making with oil bonded sand core making.	07
		OR	
Q.5	(a)	Give a list of furnaces used in a foundry for melting purpose.	07
	(b)	Compare Induction furnace with Cupola furnace.	07
