SUBJECT CODE NO:- 492 FACULTY OF ENGINEERING AND TECHNOLOGY S.E.(Mech/Prod) Examination Nov/Dec 2015 Production Processes-I (Revised)

[Time: Three Hours]

[Max. Marks: 80]

		N.B	"Please check whether you have got the right question paper." i) Q.No.1 Q.No.6 are compulsory. Solve two questions from remaining questions in each section. ii) Figures to the rights indicate full marks.			
			Section A			
Q.1	Solve any five out of the following:					
		i)	What is meant by the term 'reserving'?			
		ii)	Define stop- off pieces in foundry.			
		iii)	List the various type in- gates normally used.			
		iv)	What is the function of runner in casting process?			
		v)	Define rotary swaging.			
		vi)	Define shot peening.			
		vii)	State the applications of cold extrusion.			
		viii)	Explain punching and blanking operation.			
		ix)	Define closed die forging operation.			
		x)	List the inspection methods for machine forging.			
Q.2	a)		h a cupola furnace and label the essential parts, also describe the operation of a cupola.	08		
	b)	Expla	in with the help of neat schematic diagram of a hot chamber die casting machine.	07		
Q.3	a)		direct extrusion differs from indirect extrusion Explain.	05		
	b)		t principle is involved in hot rolling? Explain.	06		
	c)	How	tubes are manufactured.	04		
Q.4	a)	What	t is upset on machine forging? Give an example of upset forging.	06		
	b)	Expla	in centrifugal casting process.	04		
	c)	List a	nd explain various forging defects.	05		
Q.5	a)	Desci	ribe working principle of roll bending with the of suitable block diagram.	05		
	b)	Expla	in wire and tube drawing process.	05		
	c)	Expla	in any five defects in castings.	05		
			Section B			
Q.6	Sol	Solve any five out of the following:				
		i)	List main types of arc welding.			
		ii)	Define flash butt welding.			
		iii)	Write principle of thermit welding.			

- iv) Define the term polarity.
- v) What is a bead?
- vi) What are plastics?
- vii) List the common methods used for forming plastic sheets.
- viii) List two advantages of power metallurgy.
- ix) List the ways in which a metallic surface can be cleaned?
- x) What are the various organic coating on metals?

Q.7	a) b)		07 08
Q.8	a) b)		08 07
Q.9	a) b)		
Q.10	a) b) c)		