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## B. Tech. Degree IV Semester Examination May 2005

## ME 405 METAL CASTING, FORMING AND JOINING PROCESS

(2002 Admission onwards)

Time:	3 Hours	Maximum Maximu	arks:100
I.	(a)	Explain various allowances provided on patterns.	(10)
\$\$-86	(b)	What are the major ingredients of moulding sand?	(5)
	(c)	Explain the clay content test for moulding sand.  OR	(5)
H.	(a)	Explain die casting with a neat sketch.	(10)
	(b)	Distinguish between centrifugal casting and continuous casting.	(10)
m.	(a)	What are the functions of flux covering on electrodes?	(5)
	(b)	Explain the following welding methods with neat sketches:	
		(i) TIG welding	
		(ii) MIG Welding	(15)
		(iii) Atomic hydrogen welding  OR	(15)
. IV.	(a)	What are the various types of flames used in gas welding?	(10)
	<b>(b)</b>	Distinguish between gas cutting and arc cutting.	(5)
	(c)	Explain submerged arc welding with a neat sketch.	(5)
ν.	(a)	Explain the following resistance welding methods with neat sketches:  (i) Projection welding  (ii) Butt welding	(10)
	(b)	Explain thermit welding and percussion welding with the help of neat diagrams.  OR	(10)
VI.	(a)	Explain explosive welding and electro slag welding.	(10)
350.0437	(b)	Explain various methods of brazing.	(5)
	(c)	Explain various soldering alloys and its application.	(5)
VII.	(a)	With a neat sketch explain the effect of temperature on a longitudinal cross	(10)
	(b)	section of weldment.  What are the common defects in welding? State their causes and remedies.	(10)
*****	200	OR	(10)
VIII.	(a)	Explain various non destructive test methods for castings.	(10)
	(b)	Explain the common defects in casting.	(10)
IX.	(a)	Explain different types of rolling mills with neat sketches.	(10)
	<b>(</b> b)	Distinguish between drop forging and press forging. What are the main defects found in forging.	(10)
		OR	
X.	(a)	Explain with neat sketches:	
	8	(i) Direct extrusion	
*		(ii) Indirect extrusion	/1 e\
	35 <b>54</b> (2457)	(iii) Tube extrusion	(15)
잌	<b>(b)</b>	Explain wire drawing.	(5)

