Seat No.: Enro

GUJARAT TECHNOLOGICAL UNIVERSITY

Diploma Engineering - SEMESTER-V • EXAMINATION - WINTER 2013

•			Date: 02-12-2013 Total Marks: 70	
Гime	e: 02: ctions: 1. A	attempt all questions.		
	3. F	Make suitable assumptions wherever necessary. Sigures to the right indicate full marks. English version is considered to be Authentic.		
Q.1	(a) (b)	Define the term 'Arc Welding'. Describe SMAW Process with neat sketch. Give Classification of different welding power sources and explain any one with neat sketch.	07 07	
Q.2	(a)	Differentiate between DCEP and DCEN.	07	
	(b)	Prepare list of Equipment, Accessories and Tools used for SMAW. OR	07	
	(b)	Draw neat sketch of any ONE type of Welding Power source and write its Specifications.	07	
Q.3	(a) (b)	Describe CCV with neat sketch. Give Classification of Welding Electrodes and describe its Selection criteria. OR	07 07	
Q.3	(a) (b)	Describe Thyristor controlled welding Power source with neat sketch. State Advantages and Disadvantages of DC Generator.	07 07	
Q.4	(a) (b)	Describe the various Functions of Flux Coating of SMAW Welding Electrode. Draw neat sketches and state causes and remedies of any SEVEN Welding Defects.	07 07	
Q. 4	(a) (b)	OR Describe the process of "Baking of electrodes". Describe the various functions of flux in SAW.	07 07	
Q.5	(a) (b)	Draw neat sketch of SAW equipment and describe it's working. State meaning of P-numbers, F-numbers and A- numbers. State the Typical example of it	07 07	
Q.5	(a) (b)	OR Write safety Precautions to be observed in SMAW & SAW. Draw neat sketches and explain SEVEN different grooved welding Positions.	07 07	
