

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI(NEW) – EXAMINATION – SUMMER 2019

Subject Code:2162506

Date:10/05/2019

Subject Name: Metal Joining Technology

Time:10:30 AM TO 01:00 PM

Total Marks: 70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.

	MARKS
Q.1 (a) Define welding.	03
(b) List advantages of welding over riveting.	04
(c) Classify welding as per AWS.	07
Q.2 (a) Define gas welding.	03
(b) List characteristics of flux in welding.	04
(c) Sketch different gas welding flames.	07
OR	
(c) List gas welding equipments and their applications.	07
Q.3 (a) What is an arc?	03
(b) What is carbon active welding?	04
(c) Describe GMAW.	07
OR	
Q.3 (a) What is polarity?	03
(b) What is submerged arc?	04
(c) Describe GTAW.	07
Q.4 (a) What is solid state welding?	03
(b) List any 2 welding defects (other than distortion) and their causes.	04
(c) Explain friction inertia welding in detail.	07
OR	
Q.4 (a) What is chemical welding?	03
(b) Which are the causes of welding distortion?	04
(c) Explain thermit welding in detail.	07
Q.5 (a) What is NDT?	03
(b) Explain MPT.	04
(c) Classify welding electrode.	07
OR	
Q.5 (a) What is resistance welding?	03
(b) Write down principles of Radiography Testing.	04
(c) Draw a neat sketch of standard location of elements of welding symbols.	07
