

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

B.VOC. –SEMESTER 1(NEW SYLLABUS) EXAMINATION- WINTER 2018

Subject Code: 1110403

Date: 18-01-2019

Subject Name: Engineering Materials

Time: 10:30 AM to 12:30 PM

Total Marks: 50

Instructions:

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

		Marks
Q.1	(a) Explain energy band in solid with proper diagram in detail.	05
	(b) Explain types of plastics.	05
Q.2	(a) Write down properties and application of Electrical and sound insulation in detail	05
	(b) Give the difference between thermosetting and thermoplastics resins.	05
OR		
Q.3	(b) Write properties of plastics.	05
	(a) Write short note on plywood.	05
Q.3	(b) Explain defect in timber in detail.	05
	OR	
Q.3	(a) Write properties and uses of Asbestos in detail.	05
	(b) Discuss advantage, disadvantage and uses of timber.	05
Q.4	(a) Explain in detail Characteristics and Application of Tin base alloy.	05
	(b) Explain in detail Characteristics and application of Aluminium base alloy.	05
OR		
Q.4	(a) Explain in detail Characteristics and Uses of Zinc base alloy.	05
	(b) Write properties and uses of copper and copper alloy.	05
Q.5	(a) Explain Properties and uses of Bricks.	05
	(b) Discuss Properties and uses of Lime.	05
OR		
Q.5	(a) Write down types of Insulation and its example. Explain thermal insulation in detail and its important as per your view.	05
	(b) Explain properties and application of Lead and its alloys.	05
