

GUJARAT TECHNOLOGICAL UNIVERSITY

BID - SEMESTER-I EXAMINATION – SUMMER 2024

Subject Code: 2X15104

Date:10-06-2024

Subject Name: Interior Material & Technology-I

Time:02:30 PM TO 05:30 PM

Total Marks:40

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

Q.1 (a) Give answers of the following (Attempt any our) 08

1. Give any two types of brick bonds
2. Which type of stone is used in construction of ‘Taj Mahal’
3. Sketch any two types of Masonry units neatly.
4. Explain any two building material with their properties and usage.
5. Give definitions: Lintel, plinth, floor.

Q.2 (a) Explain one and half brick thick Flemish bond with necessary drawings 08

OR

(a) Explain one brick thick English bond L junction with necessary drawings 08

Q.3 (a) Explain the difference between Lime mortar and cement mortar 04

(b) Explain two types of Arches with necessary sketches 04

OR

Q.3 (a) Explain the difference between Random Rubble masonry and Ashlar masonry 04

(b) Explain the use of through stone in Random rubble stone masonry wall 04

Q.4 (a) Explain all field test in mud with appropriate sketches 04

(b) Explain the difference between Cob and Adobe in mud construction technique 04

Q.5 (a) Explain two types of shallow foundation with necessary sketches 04

(b) Explain two types of deep foundation with necessary sketches 04

OR

Q.5 (a) Explain the Masonry principles with necessary sketches 04

(b) Explain the Lime cycle and its importance as a material 04
