

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BID- SEMESTER- I EXAMINATION – WINTER 2023

Subject Code:2X15104

Date:28-12-2023

Subject Name:Interior Material & Technology–I

Time:10:30 AM TO 01:30 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 four) **08**
1. Give any two joints of stones.
 2. Which type of stone is used in construction of Taj Mahal?
 3. Sketch any two types of hollow concrete blocks neatly.
 4. Explain any two building material with their properties and usage.
 5. Give definitions: lintel, super structure, plinth, foundation.
- Q.2 (a)** Explain one brick and one and half brick English bond with necessary drawings. **08**
- OR**
- (a)** Explain one brick and one and half brick Flemish bond with necessary drawings. **08**
- Q.3 (a)** Explain the difference between English bond and Flemish bond. **04**
- (b)** Explain the anatomy of brick with proper nomenclature. **04**
- OR**
- Q.3 (a)** Give different typology of stone according to their geological properties. **04**
- (b)** Give the difference between rubble masonry and ashlar masonry. **04**
- Q.4 (a)** Explain all field tests in mud with appropriate sketches. **04**
- (b)** Explain any two methods of mud construction techniques. **04**
- Q.5 (a)** Give the difference between shallow foundation and deep foundation with necessary sketches. **04**
- (b)** Explain advantages of hollow concrete block masonry. **04**
- OR**
- (b)** Give definition : Quoin, queen closer, Jambs, corbel **04**
