

GUJARAT TECHNOLOGICAL UNIVERSITY
M.ARCH - SEMESTER- 3 • EXAMINATION – WINTER - 2021

Subject Code: X36202**Date: 10 Jan 2022****Subject Name: ADVANCED TECHNOLOGIES****Time: 10:30 AM TO 12:30 PM****Total Marks: 40****Instructions:**

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

- Q.1 (a)** Answer any 5 Objective Type Questions **05**
1. An artificial stone made from pieces of marble and cement used for facing of walls is known as _____.
a. Mosaic b. Terrazzo c. Marble d. None
 2. Which of the following products is best for improving Indoor Air Quality?
a. Air fresheners b. Candles c. Cleaning products d. None
 3. Who is known as the -Father of AI"?
a. Fisher Ada b. Alan Turing c. John McCarthy d. Allen Newell
 4. Smog is _____
a. Ozone and Smoke b. Vehicular pollutant c. Fog and smoke d. Fog & Ozone
 5. Plywood is made from _____
a. Teak wood only b. Bamboo fibre c. Asbestos sheets d. Common timber
 6. Which of the following is not an acoustical defect?
a. Reverberation b. Formation of echoes c. Absorption d. Sound foci
- Q.2 (a)** What is indoor environmental quality? What are the common sources of indoor air contaminants? **08**
- (b)** What is translucent concrete? Discuss its application in the construction industry. **07**
- OR**
- (b)** What are the types of Artificial Intelligence? Explain in detail. **07**
- Q.3 (a)** How Virtual Reality is changing the world of Interior Design. **05**
- OR**
- (b)** Differentiate between Solid wood and Engineered wood. **05**
- Q.4 (a)** Discuss in detail the environmental benefits of Green Roofs. **08**
- (b)** What are the benefits of a building automation system? **07**
- OR**
- Q.4 (a)** What is Acoustics? Explain Absorption and Reflection of sound. **08**
- (b)** What is Artificial Stone? Discuss the types of artificial stones. **07**
