GUJARAT TECHNOLOGICAL UNIVERSITY
MASTER OF ARCHITECTURE - SEMESTER 3 • EXAMINATION WINTER - 2024

Subject Code: X36202 **Date: 19 Nov 2024**
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)**	Objective Type Questions (Answer any 4 Questions)	**08**
	1.	Laminated Veneer Lumber (LVL) is an example of _____ wood.	
	2.	Artificial stone, also known as _____ stone.	
	3.	Laminated Strand Lumber is composed of about 95% wood fiber and 5% _____.	
	4.	_____ is made by mixing marble chips with white cement and some pigments.	
	5.	Calcite alabaster is usually a little _____ than Gypsum alabaster.	
	6.	Generally, Optical fibers in the range of __% to __% by volume are utilized for transparent concrete.	
Q.2	**(a)**	Differentiate between marble and alabaster.	**04**
	(b)	Write a short note on 'cross-laminated timber (CLT)'.	**04**
		OR	
	(b)	Write a short note on 'advantages of engineered wood'.	**04**
Q.3	**(a)**	Write a short note on electrified wood.	**04**
	(b)	Write a short note on sensing floor.	**04**
		OR	
Q.3	**(a)**	What are different applications of self-repairing concrete in architecture?	**04**
	(b)	Explain various factors affecting the quality of self-repairing concrete.	**04**
Q.4	**(a)**	Describe sources of indoor air pollution.	**04**
	(b)	What are the factors affecting visual quality of an interior space?	**04**
Q.5	**(a)**	What are immersive technologies? How can they be used for enhancing the quality of interior architecture?	**04**
	(b)	Write a short note on smart glass.	**04**
		OR	
	(b)	Describe any one smart device used in interior space for environmental control.	**04**

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