

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-III (NEW) EXAMINATION – SUMMER 2019

Subject Code: 2130607

Date: 15/06/2019

Subject Name: Building Construction

Time: 02:30 PM TO 05:00 PM

Total Marks: 70

Instructions:

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

		MARKS
Q.1	(a) What are the different components of a building? Describe in brief?	03
	(b) What are the objectives of sub surface investigation?	04
	(c) Draw typical door elevation showing various components.	07
Q.2	(a) Explain English Bond.	03
	(b) Draw a typical vertical section of a wall through openings and label. Define the various components.	04
	(c) What do you understand by grillage foundation? Draw a typical sketch for steel grillage foundation for a steel section.	07
	OR	
	(c) Explain in brief various methods of boring for sub soil exploration.	07
Q.3	(a) Define cavity wall. Enlist its advantages?	03
	(b) Give classification of Lintel and explain any one in detail.	04
	(c) What is the difference between pre cast & cast in situ concrete? Explain the process of manufacturing pre cast products.	07
	OR	
Q.3	(a) Write short note on timber flooring.	03
	(b) Define the terms: Tread, Landing, Soffit, Lintel	04
	(c) Enlist types of stairs and discuss any two in Detail.	07
Q.4	(a) Draw detail sketch of components of a floor.	03
	(b) Explain Lean-to-Roof.	04
	(c) Explain factors that affect the choice of a flooring material.	07
	OR	
Q.4	(a) What is the difference between plastering and pointing?	03
	(b) Define Shoring. Explain the objects of Shoring.	04
	(c) Short Note: Pit Method of underpinning	07
Q.5	(a) Explain causes of dampness in building.	03
	(b) What are causes of fire and precautionary measures taken to minimise the damage of fire.	04
	(c) Enlist Types of Scaffolding and explain any two in detail.	07
	OR	
Q.5	(a) Explain points to be considered while locating doors and windows.	03
	(b) Explain Post-construction anti-termite treatment.	04
	(c) Short Note: Green Building	07
