Tishk International University
Interior Design Eng. Department
Concrete & Structure INDS 220
2nd Grade
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Question Bank
Lecture -1-
Introduction to Structures and Loads

Part 1: Definitions

1. Define a structure and explain its main function.

2. What is meant by 'load' in building structures?

3. Define dead load, live load, and environmental load with examples.

4. What is the difference between a load-bearing wall and a non-load-bearing wall?

5. Define the term 'load path' and describe its importance in building safety.

Part 2: Comparisons

1. Compare load-bearing structures and frame structures.

2. Differentiate between dead loads and live loads with examples.

3. Compare concrete structures and steel structures in terms of strength and flexibility.

4. Distinguish between shell structures and truss structures.

5. Compare the roles of beams and columns in a structure.

Part 3: Fill in the Blanks

1. A _____ is the physical framework of a building that supports and carries all forces.

2. ____ loads are the fixed, unchanging weights in a building such as walls and roofs.

3. _____ structures use thin, curved surfaces like domes or arches to carry loads.

4. The combination of beams and columns forms a _____ structure.

5. A _____ wall resists horizontal (lateral) forces such as wind and earthquakes.