

BACHELOR OF ARCHITECTURE EXAMINATION, 2025
(B. Arch. 2nd year 2nd Semester)

SUBJECT: STRUCTURE FOR ARCHITECTS

Time : Three hours

Full Marks : 100

Instructions:

- (1) Answer for 100 marks**
- (2) Use sketches wherever necessary**

- Q. 01. Compare the role of an Architect with that of an Engineer in Building Design and Construction. 25
- Q. 02. Discuss the different types of loads which a structure is usually subjected to. Explain these loads and their actions using sketches wherever necessary. 25
- Q. 03. Discuss the properties of materials in light of selection of the same for use in different types of structures and parts thereof in architecture. 25
- Q. 04. Discuss equilibrium, stability, strength, functionality, economics and aesthetics in light of structural requirements. 25
- Q. 05. Using appropriate sketches and connection detailings, describe 'Tensile Structures' 25
- Q. 06. Discuss the various structural innovative concepts and principles of design propounded by Dr. Fazlur Rahman Khan particularly in relation with skyscrapers 25