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B. ARCH. - 1st Sem. Structure System-I Subject Code : ARC-105 Paper ID :

Time allowed: 3 Hrs Important Instructions: Max Marks: [40]

- The paper consists of three parts A, B and C. A total of four questions are to be attempted from all the parts and one question from each part is compulsory.
- Each question carries 10 marks.

PART-A

- Q 1. a) Explain the different conditions which are required by a structure for its stability.
 - b) Write a short note on Arch and Vault.

Or

- Q 2. a) What do you mean by Geodesic Dome and explain the features of a Geodesic dome.
 - b) Explain the various applications of cellular system used in buildings.

PART-B

- Q 3. a) What is a beam. Discuss the various classifications of beams.
 - b) Explain different types of slabs in detail.

Or

- Q 4. a) Explain the different characteristics of vector active structures.
 - b) Differentiate between plane truss and space truss.

PART-C

- Q 5. a) Explain in detail that how do the cables support vertical loads.
 - b) How would you classify arches on the basis of various criterias.

Or

- Q 6. a) Explain the types of Pneumatic Structures in detail.
 - b) Write a short note on Folded plates.