

University of Mumbai
Mahatma Education Society's
Pillai College of Architecture, Navi Mumbai
Bachelor of Architecture Examinations October 2022

Subject: Architectural Building Construction 5
Maximum Marks: 50
Date: 03/10/2022

Subject Code: BARC 503
Minimum Passing Marks: 20
Duration: 3 hours

- Note:**
- 1) Question No.1 is Compulsory.
 - 2) Answer Any Three Questions from the remaining.
 - 3) Draw proportionate sketches with annotations wherever required.

- Q.1** Attempt Any Four, explain with Proportionate Sketches. (20)
- a) Explain the different types of Building Skin Systems.
 - b) Explain with sketches different types of specialized footings?
 - c) Describe the difference between the isolated foundation & buoyant foundation?
 - d) Explain with proportionate sketches the types of Raft Foundation.
 - e) What is metal cladding? Where it is used? State advantages & disadvantages of metal cladding.
 - f) Canopy in Metal Frame & Polycarbonate sheeting.
- Q.2** What is Building Skin? What are the Types of Building Skin based on Materials explain with sketches?
Also describe Functional Requirements of Curtain Wall. (10)
- Q.3** A. Explain with neat sketches general Aspects of metal cladding with the fixing details. Draw appropriate sketches.
B. Enlist the properties of metal cladding with the help of sketches. (10)
- Q.4** Draw neat sketches in plan and section of up stand and down stand beam & slab raft foundation with reinforcement. (10)
- Q.5** Describe by sketching the different components of buoyant foundation? Explain how does buoyant foundation work? (10)