

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION)**

**CLASS: B.ARCH.
BRANCH: ARCHITECTURE**

**SEMESTER: III
SESSION: MO/2022**

SUBJECT: AR202 BUILDING CONSTRUCTION AND CODES

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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Q1 (a)	Discuss the different Classification of Soil broadly w.r.t. Site construction perspective as per IS:1498.	[2]	2	1
Q1 (b)	How do you identify Silts and Clay of low, medium and high compressibility?	[3]	2	2
Q2 (a)	Describe the factors affecting in the selection of suitable Foundation type for any Building.	[2]	1	2
Q2 (b)	What do you understand by Shallow and Deep Foundation explain with two examples of both typologies?	[3]	3	1&2
Q3 (a)	Explain Grillage foundation with schematic diagram and its uses.	[2]	3	1
Q3 (b)	Explain the different types of earth retaining systems for deep excavations at construction sites.	[3]	1	1
Q4 (a)	What is Formwork and different aspect of a good formwork?	[2]	1	1&2
Q4 (b)	What are the Different Classification criteria and types of Formwork?	[3]	1	1
Q5 (a)	What is Shoring and explain its requirement and its different component with a neat sketch	[2]	3	1&2
Q5 (b)	Explain Scaffolding including its types and different components with the help of sketch.	[3]	3	1

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