

**BIRLA INSTITUTE OF TECHNOLOGY, MESRA, RANCHI
(MID SEMESTER EXAMINATION SP/2023)**

CLASS: BTECH/BARCH
BRANCH: BT/CHEMICAL/CS/EEE/ECE/MECH/PIE/BARCH

SEMESTER : IV
SESSION :
SP/2023

TIME: 02 Hours
SUBJECT: CE427 BUILDING CONSTRUCTION

FULL MARKS: 25

INSTRUCTIONS:

1. The question paper contains 5 questions each of 5 marks and total 25 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Tables/Data handbook/Graph paper etc., if applicable, will be supplied to the candidates
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- Q.1(a) What are the different types of foundation? [2]
Q.1(b) Where will you use deeper foundation? [3]
- Q.2(a) What are the materials used in brick masonry? [2]
Q.2(b) What are the types of stone masonry? Write the principles to be observed in construction of stone masonry. [3]
- Q.3(a) What do you mean by bond in brick masonry? [2]
Q.3(b) What are the defects in brick masonry? [3]
- Q.4(a) What do you mean by shoring? [2]
Q.4(b) Write about centering & shuttering? [3]
- Q.5(a) Why underpinning is done? [2]
Q.5(b) What do you mean by scaffolding? [3]

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