

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

**CLASS: ARCHITECTURE
BRANCH: ARCHITECTURE**

**SEMESTER : VI
SESSION: SP/2023**

SUBJECT: AR351 SPECIFICATION ESTIMATION & COSTING

TIME: 3 Hours

FULL MARKS: 50

INSTRUCTIONS:

1. The question paper contains 5 questions each of 10 marks and total 50 marks.
 2. Attempt all questions.
 3. The missing data, if any, may be assumed suitably.
 4. Before attempting the question paper, be sure that you have got the correct question paper.
 5. Tables/Data hand book/Graph paper etc. to be supplied to the candidates in the examination hall.
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		CO	BL
Q.1(a)	What is earnest money in tendering? What happens to earnest money of unsuccessful tender?	[5] A	Analyse
Q.1(b)	What is a contract? Explain the target contract.	[5] A	Understand
Q.2(a)	The detailed estimate is prepared in two stages. Briefly explain the two stages.	[5] B	Understand
Q.2(b)	Difference between the revised estimate and the supplementary estimate.	[5] B	Apply
Q.3(a)	The plan attached with the question paper represents the plan of the superstructure wall of a single-room building of 5m X 4m, and the section represents the cross-sections of the walls with the foundation. Estimate the quantities of Brickwork in the foundation and plinth by long-wall and short-wall methods.	[5] B	Evaluate
Q.3(b)	Referring to the figure provided in Q3 (a), calculate the brickwork in the superstructure by long-wall and short-wall methods.	[5] B	Evaluate
Q.4(a)	Reinforced cement concrete work is usually estimated under which two items? Write with units	[5] B	Remember
Q.4(b)	Write a formula to calculate the total length of a straight bar hooked on both ends.	[5] B	Understand
Q.5(a)	What is the analysis of the rate? On what factors does the rate of an item depend?	[5] C	Remember
Q.5(b)	Describe General overheads and Job overheads.	[5] C	Understand

:26/04/2023:M