

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

**CLASS: BARCH
BRANCH: ARCHITECTURE**

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

SUBJECT: AR351 SPECIFICATION ESTIMATION AND COSTING

TIME: 02 Hours

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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		CO	BL
Q.1(a)	What is a special specification?	[2]	2 Remember
Q.1(b)	Discuss the main points of consideration while making a specification.	[3]	1 Understand
Q.2(a)	What is tender? Discuss open tender.	[2]	2 Remember
Q.2(b)	Differentiate between percentage contracts and cost-plus percentage contracts.	[3]	1 Analyse
Q.3(a)	What happens to tender without the deposition of earnest money?	[2]	2 Analyse
Q.3(b)	Elaborate Earthwork as a main item of work in excavation. Mention the unit of calculation of earthwork.	[3]	2 Understand
Q.4(a)	Briefly describe contingencies.	[2]	1 Remember
Q.4(b)	What is the purpose of the approximate estimate	[3]	2 Understand
Q.5(a)	Give an example of a per-unit basis in the preliminary estimate of a building.	[2]	2 Remember
Q.5(b)	Prepare a preliminary estimate of the building project with a total plinth area of all buildings of 1500 Sq Mt. given that - a) Plinth Area rate = Rs 950 Sq Mt b) Extra for special architectural treatment = 1.5% of the building cost c) Extra for water supply and sanitary installation = 5% of the building cost d) Extra for internal installation 14% of the building cost e) Extra for services = 6% of the building cost f) Contingencies= 3% g) Supervision charges = 8%	[3]	2 Evaluate

:22/02/2023:M