

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

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

**SEMESTER : VI
SESSION : SP/2025**

SUBJECT: AR353 ARCHITECTURAL CONSERVATION & HERITAGE MANAGEMENT

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)	Identify the need to conserve a building? - Explain with couple of examples	[5]	1 BL1
Q.1(b)	Outline the genesis of the global conservation movement	[5]	1 BL1
Q.2(a)	Discuss the methodology flow chart for conservation of heritage buildings and establish the application of the methodology on any example of conservation	[5]	1 BL2
Q.2(b)	'Insects and pest are enemies to historic properties.' - establish the same citing examples of three (03) different types of insects, their damages and eradication techniques.	[5]	1 BL2
Q.3(a)	Discuss briefly the technique we adopt for documentation of a heritage building.	[5]	2 BL3
Q.3(b)	Elaborate on Chemical corrosion process of building materials and their remedial measures.	[5]	2 BL3
Q.4(a)	Distinguish between the following terms with sketches: (i) Jacketing of columns, (ii) Patching, (iii) Sticking, (iv) Grouting, (v) Strengthening of foundation	[5]	3 BL4
Q.4(b)	Recommend the Sustainable Heritage Conservation techniques for adaptive reuse of historic buildings.	[5]	3 BL5
Q.5(a)	Assess the problems and issues as regards to Historic towns.	[5]	3 BL5
Q.5(b)	Construct an economic assessment of heritage structures using Contingent Valuation Method explaining its methodology.	[5]	3 BL6

:::29/04/2025:::M