

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

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

**SEMESTER: I  
SESSION: MO/2023**

**SUBJECT: AR101 PRINCIPLES OF ARCHITECTURE**

**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)	How architecture course is associated with humanity and science?	[5] 1	APPLY
Q.1(b)	What is project-based learning, and why is it important?	[5] 1	ANALYSE
Q.2(a)	Discuss the following basic possibilities for grouping two or more forms: a) Spatial Tension b) Edge to Edge contact c) Face-to-face contact	[5] 2	REMEMBER
Q.2(b)	What are the two approaches to biomimicry?	[5] 3	UNDERSTAND
Q.3(a)	Discuss spatial organisation used in the design.	[5] 2	REMEMBER
Q.3(b)	Who developed the concept of Le Modular? What are the limitations of prefabrication?	[5] 2	UNDERSTAND
Q.4(a)	It is not just the structural importance and constructional behaviour; visual impact also forms the essence of the built environment. Discuss how the choice of material signifies visual impact.	[5] 3	APPLY
Q.4(b)	What is comfort? Mention factors affecting comfort under personal variables.	[5] 2	REMEMBER
Q.5(a)	What is B V Doshi's philosophy towards Indian architecture? Mention at least four buildings by B V Doshi.	[5] 3	REMEMBER
Q.5(b)	Name the book of Robert Venturi in which he formalised the post-modernist movement. Write the characteristics of post-modern architecture.	[5] 2	UNDERSTAND

**:::::11/12/2023 M:::::**