

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

CLASS: BARCH
BRANCH: ARCH

SEMESTER : I
SESSION : MO/19

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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- Q.1(a) Elaborate the two dimensions of biophilic design. Mention at least six biophilic design elements. [5]
Q.1(b) What is colour wheel? Define primary, secondary and tertiary colour and show them in neat sketch of colour wheel. [5]
- Q.2(a) Write about significant impact of material on architecture. [5]
Q.2(b) Difference between climate and weather. Mention four elements of climate. Write key characteristic of composite climate. [5]
- Q.3(a) "Prefabrication had given new dimension to architecture". Explain the statement and discuss the advantages of prefabrication. [5]
Q.3(b) Discuss golden ration in detail. How it is denoted? Write at least one building associated in golden ration. [5]
- Q.4(a) Discuss the architectural style of Charles Correa. List at least four buildings that exhibit his philosophy for post-independence India. [5]
Q.4(b) Differentiate with the key characteristic features of post-modern and modern architecture school of thoughts. Write at least two eminent architects associated with modern architecture style. [5]
- Q.5(a) What is design? Discuss the design process that an architect must formulate to execute the work. [5]
Q.5(b) What is Project based learning? Discuss the education of architecture under two heads: humanities and science. [5]

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