

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

**CLASS: BARCH
BRANCH: ARCHITECTURE**

**SEMESTER: I
SESSION: MO/2018**

SUBJECT: AR101 PRINCIPLES OF ARCHITECTURE

TIME: 2 HOURS

FULL MARKS: 25

INSTRUCTIONS:

1. The total marks of the questions are 25.
 2. Candidates may attempt for all 25 marks.
 3. Before attempting the question paper, be sure that you have got the correct question paper.
 4. The missing data, if any, may be assumed suitably.
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- Q1 (a) Outline the Architect's Contribution towards culture and the society. [2]
Q1 (b) Describe the Architectural Design & Building Process & the Architect's role in it. [3]
- Q2 (a) Describe the structure of Architectural Education w.r.t Curricular content (i.e. subjects taught) in - History of Architecture, Materials and Methods of Construction, and Building Services. List the various subjects under the above-mentioned heads. [2]
Q2 (b) List the various subjects under the below-mentioned heads - Structural Subjects, Electives and Building Science. [3]
- Q3 (a) Explain architecture in terms of the three variables Need, context and form. [2]
Q3 (b) Explain the basic design elements, point, line and plane and their incorporation in architecture. [3]
- Q4 (a) Show the application of sphere and cylinder in Architecture. [2]
Q4 (b) Analyse the different Principles of Organization of Form & Space, taking architectural examples. [3]
- Q5 (a) Apply Fractals w.r.t to their applications giving two architectural examples. [2]
Q5 (b) Evaluate Biophilic Architecture with respect to its merits and analyze bio-mimicry in terms of creating healing environment. [3]

::: 09/10/2018 M :::