

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

CLASS: B.Arch
BRANCH: Architecture

SEMESTER : 3rd
SESSION : MO/2025

SUBJECT: AR203 CONTEMPORARY 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.
-

- | | | | |
|--------|--|-----|-----------------------|
| Q.1(a) | Describe the prevailing architectural styles before the Industrial Revolution , highlighting key characteristics and aesthetic principles. With neat sketches, explain how materiality shaped the architectural expression and construction techniques of that era. | [5] | CO
(CO2,
CO3) |
| Q.1(b) | With neat sketches, describe the structural and architectural innovations seen in two major Industrial Revolution era buildings (e.g., <i>Crystal Palace</i> , <i>Eiffel Tower</i> , <i>Gallerie des Machines</i>). | [5] | (CO1,
CO2,
CO4) |
| Q.2(a) | With neat sketches from projects, explain about both the movements-
1) Art Nouveau Style
2) Chicago School of Architecture | [5] | (CO1,
CO2,
CO4) |
| Q.2(b) | Elaborate on the architectural philosophy and design principles of Louis Sullivan . Using sketches of façade articulation, and structural concepts , analyze any one of his major buildings. | [5] | (CO1,
CO2,
CO4) |
| Q.3(a) | Define Organic Architecture and discuss its core principles. With the aid of conceptual sketches , explain how Organic Architecture is demonstrated in any two buildings by Frank Lloyd Wright . | [5] | (CO1,
CO3,
CO4) |
| Q.3(b) | Discuss the core ideas of Minimalist Architecture . Support your answer with sketches and analysis of material honesty, and reduction of form in the works of architects like Mies van der Rohe . | [5] | (CO1,
CO3,
CO5) |
| Q.4(a) | Explain in detail the differences in the architectural philosophies and design approaches of Alvar Aalto and Louis Kahn . Using well-labeled sketches , compare their treatment of form, materials, light, spatial organization, and human experience through any two projects, one by each architect. | [5] | (CO1,
CO2,
CO4) |
| Q.4(b) | Explain the fundamental architectural principles of Le Corbusier . Illustrate with sketches his design ideologies such as pilotis, free façade, free plan, ribbon windows, and roof garden with at least 2 projects. | [5] | (CO1,
CO3,
CO5) |
| Q.5(a) | Discuss the core principles of Sustainable Architecture as practiced by B.V. Doshi . With neat sketches, explain how climate response, traditional wisdom, and material efficiency are reflected in any two of his projects. | [5] | (CO1,
CO3,
CO5) |
| Q.5(b) | Explain with neat sketches the architectural characteristics of High-Tech Architecture . Discuss how structure and services are expressed externally, referring to at least one building by Richard Rogers or Norman Foster . | [5] | (CO1,
CO2,
CO4) |

:::::21/11/2025:::::E