

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

CLASS: BARCH  
BRANCH: ARCH

SEMESTER : IV  
SESSION : SP/19

SUBJECT: AR4403 CONTEMPORARY ARCHITECTURE  
TIME: 3:00 HOURS

FULL MARKS: 60

INSTRUCTIONS:

1. The question paper contains 7 questions each of 12 marks and total 84 marks.
  2. Candidates may attempt any 5 questions maximum of 60 marks.
  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) List and explain about at least two types of squares. Give examples for each. [2]
- Q.1(b) Explain about the construction with steel and cast iron through example of one of **Henry Labrouste's** buildings. [4]
- Q.1(c) Explain briefly about- [6]
- a) Casa Mila
  - b) Casa Batlo
  - c) Sagrada Familia
- Q.2(a) Explain about the architectural traits of buildings under 1<sup>st</sup> **Chicago School of Architecture**. Give 2 [2]  
examples.
- Q.2(b) Explain about the impact of **Great Exhibitions of 1851 and 1889** on Architecture, Explain in detail [4]  
about at least one building from each Exhibition.
- Q.2(c) Explain with sketches and illustration about the development of **Ferro Concrete** in at least 1 [6]  
architectural work each of **Auguste Perret** and **Tony Garnier**.
- Q.3(a) Explain the aspects of "**Richardsonian Romanesque**" through one of **H.H. Richardson's** building. [2]
- Q.3(b) Explain in detail about the design philosophies used by **H.P. Berlage** in his **Amsterdam Exchange [4]  
Building, Netherlands**.
- Q.3(c) The American Institute of Architects declared **Fallingwater** the "**Best all-time work of American [6]  
architecture**". Illustrate the above with sketches and planning aspects of the house.
- Q.4(a) Explain briefly about the aspects of design used by **Frank Lloyd Wright** in **Unity temple, Illinois**. [2]
- Q.4(b) Elaborate in detail about the significance of the design of **Bauhaus at Dessau, Germany** by **Walter [4]  
Gropius** with respect to advent of **Modern Architecture**, supported with appropriate sketch of  
the building.
- Q.4(c) Elucidate upon the design philosophy of **Kenzo Tange**. Explain in detail through sketches and [6]  
illustrations about **St. Mary's Cathedral, Tokyo**.
- Q.5(a) Discuss the process of generating concept and its development in the works of **A.P Kanvinde** with [2]  
examples and sketches.
- Q.5(b) Explain with sketches, the essence of "**Deconstructivism**" in atleast 2 of the works of **Zaha Hadid**. [4]
- Q.5(c) Sketch and explain the architectural features of the following : [6]
- a. **Hong-Kong bank by Norman Foster**
  - b. **Pompidou Centre by Renzo Piano**
- Q.6(a) Discuss briefly on architectural philosophy of **Alvar Aalto** and the concept of design of **Paimio [2]  
Sanatorium** designed by **Alvar Aalto** in 1933 supported by appropriate sketches.
- Q.6(b) Explain the philosophy of **Richard Neutra** with the help of two examples, with neat sketches. Give [4]  
examples of at least two of his structures.
- Q.6(c) How can vernacular architecture still exists in the modern world? Illustrate the above in detail [6]  
through one of **Charles Correa's** work.
- Q.7(a) Write a note on elevation treatment of **High-Court, Chandigarh** with illustrations and sketches. [2]
- Q.7(b) Discuss the impact of design of **Chandigarh** and **I.I.M. Ahmedabad** in shaping modernism in post- [4]  
independence architecture.
- Q.7(c) Summarize the contribution of architect **Laurie Baker** to Indian contemporary architecture. [6]  
Illustrate his design philosophies through one of his buildings