

PART TWO: THE MEDIA OF ART

Chapter 12: Architecture

Vocabulary

masonry
dressed
post and beam
colonnade
arch
vault
pier

dome
keystone
arcade
concrete
minaret
buttress
trusse

balloon frame
cast-iron
steel
international style
curtain walls

Multiple Choice Questions

1. Zimbabwe, as in the *Great Zimbabwe*, means:
(a) African country
(b) homage to Zimba
(c) lion house
(d) stone house
Answer: (d)
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2. The Roman aqueduct Pont du Gard is a good example of the _____ method of construction.
(a) post and beam
(b) arch
(c) vault
(d) load-bearing
Answer: (b)
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3. The Crystal Palace by Joseph Paxton is an excellent example of architecture using:
(a) pointed arches and vault
(b) post and lintel
(c) structural steel
(d) cast iron
Answer: (d)
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4. The architect Frank O. Gehry has the idea that architecture is similar to functional sculpture, as can be seen in his _____.
(a) Musee D'Orsay
(b) Italian Pavilion
(c) Hyogo Children's Museum
(d) Guggenheim Museum Bilbao
Answer: (d)
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5. The Lois and Richard Rosenthal Center for Contemporary Art is typical of the adventurous architectural style of:
(a) Frank Lloyd Wright
(b) Zaha Hadid
(c) Walter Gropius
(d) Le Corbusier
Answer: (b)
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6. Architecture is the art and science of designing and constructing buildings for practical, aesthetic, and _____ purposes.
(a) constructive
(b) destructive
(c) symbolic
(d) historic
Answer: (c)
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7. Gothic builders were able to open large areas for windows because of the use of the pointed arch and:
(a) buttresses
(b) pendentives
(c) arched vaults
(d) naves
Answer: (a)
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8. One of America's prime contributions to 20th-century architecture was:
(a) structural steel
(b) the elevator
(c) the International Style
(d) the skyscraper
Answer: (d)
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9. The Chicago school of architecture was led by the first great modern American architect:
(a) Louis Sullivan
(b) Joseph Paxton
(c) Walter Gropius
(d) Gustave Eiffel
Answer: (a)
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Short Answer Questions

10. Identify the style attributed to the residential architecture of Frank Lloyd Wright?
11. Provide an example of the post and beam method of construction.
12. List and define three key concepts all architects must deal with.
13. Joseph Paxton's Crystal Palace is an example of what kind of construction?
14. Identify the purpose and significance of Pont du Gard.
15. Define "International Style" and provide an example from the chapter that best exemplifies this style of architecture.
16. Define "truss" and provide an example from the chapter that best exemplifies this type of construction method.

Essay Questions

17. Explain how architecture can be both an art and science.

18. Discuss the Roman contribution to architecture.
19. Explain the advantages and disadvantages of the post and lintel method of construction and the skeleton and skin method of construction.
22. Discuss the importance of the Bauhaus to contemporary architecture, using Mies van der Rohe's credo "less is more."
23. Compare and contrast the interior of Hagia Sophia with the interior of Notre Dame de Chartres.
24. Compare and contrast the Crystal Palace with the Eiffel Tower.
25. Compare and contrast the International Style of the Bauhaus to the Jeppesen Terminal Building. How does each reflect the time they were constructed?
26. Compare and contrast Wright's Falling Water with Gehry's Guggenheim Museum Bilbao. Make sure to discuss the aims of each architect.
27. What were the contributions of Louis Sullivan and the Chicago school of architecture?
28. Citing examples, what are the strengths and weaknesses of post and lintel construction?
29. Citing examples, discuss the engineering developments of the Romans.
30. Zaha Hadid has been described as a Deconstructionist architect. Citing examples, discuss why she has been described in this way.
31. What is the aim of environmental design? What are the different aspects of environmental design? Discuss how environmental design might be used to improve your community.