

Ministry of higher education and scientific research
Salahaddin University
College of Engineering
Architectural department
Academic year 2023-2024

Design Methods Question Bank

Spring Semester

Second stage

15 weeks/ one semester/ 1 lecture per week

4 hrs. in lectures (2 theory + 2 practical) – Tuesday 11:00 -15:00

Project: 100 Things Every Designer Needs to Know About People (Report + Presentation)

Course responsible: Prof. Dr. Faris Ali

Staff: Assist. Lect. Sakar Yousif Abdullah

1. How Vitruvius defined Architecture?
2. What is the difference between architecture and building?
3. Mention the main components of architectural design.
4. What we mean by project based learning?
5. What designer's need to make a good design?
6. What is the difference between data, information and knowledge?
7. How we can gain knowledge?
8. What is logic?
9. What is philosophy?
10. What is the difference between logic and philosophy?
11. Mention the main branches of philosophy.
12. What we mean by epistemology?
13. What is theory of knowledge?
14. What is axiology?
15. Mention the basic values.
16. Define ethics.
17. Mention the objectives of logic.
18. What is correct reasoning?
19. Numerate types of logic.
20. What is the difference between induction and deduction reasoning?
21. What we mean by material logic?
22. Define inference.
23. Mention the main elements of inference.
24. What are the main mechanisms of inference?
25. Logic has certain laws, mention the laws of logic.
26. What we mean by the law of identity as one of the logic's laws?
27. Define law of non-contradiction.
28. Explain the law of excluded middle.
29. Mention the main approaches for generating 3-dimensional forms by architects.
30. Explain pragmatic design.
31. Define iconic design.
32. What we mean by analogic design?
33. Explain analogic design and mention its types.
34. What we mean by platonic geometry? Enhance your answer by sketches.
35. According to Plato universe structured by four basic elements, mention them and draw sketches to enhance your answer.

36. Make a comparison among the four different ways for generating 3-dimensional forms by architects.
37. What do we mean by design?
38. What is methodology?
39. What is the difference between linear qualities and non-linear qualities of design process?
40. Mention steps of design.
41. Explain the cycle of design, enhance your answer with sketches.
42. What is the difference between design and design process?
43. How can a designer create a good composition?
44. What are the main components of design?
45. Mention the main principles of design.
46. Design is a hybrid activity; for its successful execution it depends on making a combination among art, science and mathematics. Explain this statement.
47. Design process as a very complex process which contains two types of intellectual activities, explain them briefly.
48. What are the Intellectual Ideological Approaches of Design Process?
49. What is the difference between glass box and black box process of design?
50. Explain The Creative Intuitive Model of design process.
51. Compare among the Intellectual Ideological Approaches of Design Process.
52. What do we mean by The Participation Collective Model of design process?
53. What are the types of fallacy?
54. What do we mean by informal logic?
55. What do we mean by design constraints?
56. Design is a balancing act; it is wishing versus needs. Explain this statement.
57. Mention the main humanistic approaches for using metaphors.
58. What is the sequence of architectural design in the design by drawing process?
59. What do we mean by craft evolution?
60. What is the difference between craft evolution and design by drawing method?
61. How can we identify the strengths and weaknesses of traditional methods of design?
62. What are the types of complexities in new design problems which need new design methods?
63. What are the main ways of acquiring knowledge?
64. What are the objectives of logic?

65. Logic and architecture: architecture exists in relation to two sets of conditions, state them.
66. To design, there are several steps; list these steps.
67. Christopher Jones described the design process as a very complex process which contains two types of intellectual activities, state both.
68. According to (Christopher Jones, 1980), the intellectual approaches for the design process can be divided into three ideological approaches mention these approaches without explanation.
69. The law of identity is one of the laws of logic, define it and give an example.
70. A critical test of architecture can be made through key questions... what are they?
71. Which type of fallacy is the assumption that since two things are similar in one or more ways, they are necessarily similar in some other ways.
72. The building is built deeply in tribal awareness and because every member of the tribe has a fixed mental image of what a house should look like... This statement refers to which type of design?
73. Which type of design depends on proportional system to provide the designer with many design decisions.
74. Explain The False Dilemma
75. Which type of fallacy may occur when we rely on too small of a sample or an unrepresentative sample to support the generalization?