Ministry of higher education and scientific research
Salahaddin University
College of Engineering
Architectural department
Academic year 2022-2023

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: poster (design elements and principles) and Vitruvius's 10 books of architecture presentation

Course responsible: Assist. 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-dimentioal 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-dimentioal forms by architects.
37. What 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 designer can 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 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 we mean by The Participation Collective Model of design process?
53. What are the types of fallacy?
54. What we mean by informal logic?
55. What we mean by design constrains?
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 are the sequence of architectural design in the design by drawing process?
59. What we mean by craft evolution?
60. What is the difference between craft evolution and design by drawing method?
61. How we can identify the strengths and weaknesses of traditional methods of design?
62. What are the types of complexities in new design problems which needs 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?