

Salahddin University

Question Bank

Module: Architectural Design 3&4

Collage of Engineering

2023- 2023

fall and spring Semesters

Architectural Department

Design Staff

## Question Bank

1. Define Design process.
2. What is Matrix in Design process? (Enhance your answer by sketching)
3. How to convert a matrix to a bubble chart to zoning? (Enhance your answer by sketching)
4. Select points for site analysis for a project. (Enhance your answer by sketching)
5. What is architectural concept?
6. What are the treatments that must be followed to design the building on the sloping land?
7. Explain the gradation that exists in residential buildings from the public zone to the private zone? (Enhance your answer by sketching)
8. Determine the shape of the triangle in the kitchen. (Enhance your answer by sketching)
9. What is the best view and orientation for the living room in the Kurdistan region?
10. What is the best view and orientation for bedrooms in the Kurdistan region?
11. What is the best place for the reception room in the house? Why?
12. What is the best orientation and place for bed rooms in the house? Why?
13. Draw a master bed room in a villa on a scale of 1/50; including furniture and dimensions.
14. What does mean daily activities and night activities in the house building?
15. What is the best view and orientation for dining room in the house?
16. Count the area needed for parking 50 vehicles in a school building. (Enhance your answer by sketching)
17. Draw a sketch for kitchen, dining and living room on a scale of 1/50; including furniture and dimensions.
18. Draw a plan and section of restaurant hall in the motel on a scale of 1/50. (plan and section)
19. Draw an administration building in motel on a scale of 1/50.
20. Determine the best location and orientation for the house.
21. Draw a kitchen in resturant building on a scale of 1/50; including furniture and dimensions.
22. Draw a master bed room in villa on a scale of 1/50; including furniture and dimensions.
23. What dose eco-friendly house means? Why we need our house to be eco-friendly?
24. What are the main problems with our house design and how we can resolve them?
25. What are the spaces that priorities to be oriented to sun orientation in house design?
26. What is the best orientation building in our region? Why? Support your answers by giving some examples
27. What are the main spaces in a house? Draw the relationship matrix between them and then transformed to zoning.

28. What is the brain storming and how can we bring a reliable concept to our design?
29. What is the difference between analogy and metaphor in architecture concept?
30. In psychological side, what types of colors can be use in the resurant?
31. What is the impact of greenhouse design on the building uses?
32. Analyze the selected site area according to the environmental issues.
33. Analyze the site area according to its boundary.
34. What is concept development? Use some sketches to support your answers.
35. Design a small house with all needed requirement spaces with in 100m<sup>2</sup>, scale 1/50
36. Design a villa with all basic requirements on 1000m<sup>2</sup> with in two floor, Scale 1/50
37. Design a plan and a section for a motel including all needed standard for the bed, table, tv windows .... etc., scale 1/50
38. How can we achieve sustainable villa design?
39. What area the three main component of sustainable house?
40. What are the factors to be considered in the design of a **market** building?
41. What are the requirements for **resort house**?
42. What is an ideal kitchen layout in **restaurant** for motel building? (Enhance your answer by sketching)
43. What are the numbers of a **car parking** for 40persons, how to calculate them?
44. In your opinion, motel building is a functional or form building.....
45. Design a **entrance hall in the motel**, the basic layout of the hall is a free shape, the basic dimension 25\*40.(plan ,section and front of elevation ,scale 1:50 )
46. How to design shelter (**waiting area** for guest) of car parking space. Support your answers by drawing sketches and including **access** people from main entrance to entrance of the room)
47. Design of **administrative office** in motel building (number of staff 6 members) should be including (plan, section and main elevation)
48. What are **activities outside** for grade the motel? (Examples and mention)?
49. What are the criteria for **selecting site** of house building?
50. What are the factors to be considered when designing a **resort house**? explain it
51. Which is the best orientation **bedroom in the motel**? Why? Explain it?
52. Explain types of space organization through sketch?
53. How you select type of circulation in motel building?
54. Define motel and its function and design criteria?
55. What are specifications of modern design for villa building?
56. Design space program for motel of 100 bed?
57. Compare villa design with resort house design?
58. How you develop motel building design?
59. Identify best shape for motel at mountain?
60. Select right color composition for bed room school
61. Design a colorful restaurant for guest room in the resort complex?
62. How you enhance activity in in resort complex?
63. How you motivate caline through design?
64. Design modern resort using contrast color?

65. Analyze three local motels and three international motels, then compare design solution?
66. Identify best design criteria for resort complex?
67. Explain role of color composition in design?
68. Sketch three mass model identify which type suitable for villa house?
69. Draw modern landscapes that enhance client ?
70. Explain types of motel building?
71. What is work triangle in a kitchen?  
..... , .....
72. What is work sequence in a kitchen?  
.....,.....,.....,.....,.....,.....
73. What are the objects that affect the design of the bathrooms in the villa?  
..... , .....
74. Which direction is preferred in the design of the living room? .....
75. In your opinion what is difference between bubble diagram and matrix?  
Bubble diagram....., matrix .....
76. Define zoning?  
.....
77. Service zones in the Villa include ..... , .....,  
.....
78. What are the main points in analyzing site context?  
.....,.....,.....,.....,.....  
.....
79. What is the benefit of site analysis in terms of circulation?  
..... , ....., .....
80. The degree of steep slope is between  
.....
81. List three physical characteristics that are taken into account when analyzing an architectural site. .... ,  
.....,.....
82. Count three sources of creating a concept?  
..... , ....., .....
83. What are dimensions of concept?  
....., .....
84. What is an architecture concept? .....,  
.....
85. How can express the concept? .....,  
.....
- 86.
87. Discuss the main principles that should be considered in kitchen design. (Enhance your answer with a sketch).
88. Define below statements:  
(Island - Villa components – Bed room – service zone)
89. What is the differences between public spaces and private spaces

90. How can to convert a matrix relationship to a bubble diagram and then to zoning?  
(Enhance your answer with a sketch).
91. What are the spaces that have priority to be oriented to sun orientation in house design?  
Why? support your answer by given an example.
92. Count the types of the motel.
93. **Fill the blanket with correct answer.**
1. Minimum size of lobby is ..... m<sup>2</sup> per gest room.
  2. The dimension of single corridor is ..... m<sup>2</sup> per guest room.
  3. The dimension of double corridor is ..... m<sup>2</sup> per guest room.
  4. Minimum area for bathroom is .....m<sup>2</sup>
  5. A restaurant should provide seats equal to..... times the number of guests.
94. Count the types of Guest rooms in the motel.
95. Briefly mention the differences between the hotel and motel in term (location, orientation, and parking)?
96. Design a master bed room which includes (bed room, bathroom and dressing room).
1. Draw a plan with details (furniture's, doors and windows), with a total area of 50msq.
    - Bed room is 30msq.
    - Bathroom is 10msq.
    - Dressing room is 10msq.
  2. Draw 2 sections with a Height of 4m, which should show all the spaces (bed room, bathroom and dressing room).
97. Briefly mention the differences between the hotel and motel in term (location, orientation, and parking)?