

Salahddin University

Question Bank

Module: Architectural Design 3&4

Collage of Engineering

2021- 2022

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. Determine the best location and orientation for the lab in the school building.
12. Count the spaces needed for a learning cluster for students from stages 1 to 3. (Enhance your answer by sketching)
13. Count the spaces needed for a learning cluster for students from stages 4 to 6. (Enhance your answer by sketching)
14. Determining the direction of buses in school garages. (Enhance your answer by sketching)
15. Draw a classroom for 32 students on a scale of 1/50; including furniture and dimensions. (Enhance your answer by sketching)
16. What furniture should be in the classroom? (Enhance your answer by sketching)
17. How to design a lobby in a learning cluster? (Enhance your answer by sketching)
18. Determine the location and orientation of multipurpose hall in school building. (Enhance your answer by sketching)
19. Explanation of the bus stop and its necessity in the school building. (Enhance your answer by sketching)
20. How to treat pedestrians in the school building on the sloping land? (Enhance your answer by sketching)
21. How do the different functions linked to each other in the school buildings? (Enhance your answer by sketching)
22. Design an outdoor learning terrace for 32 students on a scale of 1/50. (draw the plan and elevation)
23. What is annex room in learning block? (Enhance your answer by sketching)
24. What is the difference between a classroom and an outdoor learning terrace?

25. What are the relations between the learning cluster and the outdoor learning terrace?
(Enhance your answer by sketching)
26. Draw a chair for the students from grades 1 to 3 in a classroom. (draw plan and elevation
Scale 1/50)
27. Draw a table for the students from grades 1 to 3 in a classroom. (draw plan and elevation
Scale 1/50)
28. Draw a chair for the students from grades 7 to 9 in a classroom. (draw plan and elevation
Scale 1/50)
29. Draw a table for the students from grades 7 to 9 in a classroom. (draw plan and elevation
Scale 1/50)
30. Explain the needs of handicapped students in the school building. (Enhance your answer
by sketching)
31. Draw the plan of toilet for handicapped students in the school building. Scale 1/50
32. Designing the lobby of a learning block for students from grades 7 to 9. (draw plan and
section scale 1/50)
33. What is the best orientation for the class room in the school building?
34. Draw a restaurant in school building on a scale of 1/50; including furniture and
dimensions.
35. What is the best place for the reception room in the house? Why?
36. What is the best orientation and place for bed rooms in the house? Why?
37. Draw a master bed room in a villa on a scale of 1/50; including furniture and dimensions.
38. What does mean daily activities and night activities in the house building?
39. What is the best view and orientation for dining room in the house?
40. Count the area needed for parking 50 vehicles in a school building. (Enhance your
answer by sketching)
41. Draw a sketch for kitchen, dining and living room on a scale of 1/50; including furniture
and dimensions.
42. Draw a plan and section of multipurpose hall in the school building on a scale of 1/50.
(plan and section)
43. Draw an administration building in the school building on a scale of 1/50.
44. Determine the best location and orientation for the house.
45. Give an opinion of shelter design for students in a school building. (Enhance your answer
by sketching)
46. Draw personal lockers for 16 students from grades 7 to 9 in a classroom. (draw plan and
elevation Scale 1/50)
47. Draw a library in school building on a scale of 1/50; including furniture and dimensions.
48. Draw a master bed room in villa on a scale of 1/50; including furniture and dimensions.
49. What dose eco-friendly house means? Why we need our house to be eco-friendly?
50. What are the main problems with our house design and how we can resolve them?
51. What are the spaces that priorities to be oriented to sun orientation in house design?
52. What is the best orientation building in our region? Why? Support your answers by
giving some examples
53. What are the main spaces in a house? Draw the relationship matrix between them and
then transformed to zoning.
54. What is the brain storming and how can we bring a reliable concept to our design?

55. What is the difference between analogy and metaphor in architecture concept?
56. In psychological side, what types of colors can be use in the primary school?
57. What is the impact of green school design on the building uses?
58. Analyze the selected site area according to the environmental issues.
59. Analyze the site area according to its boundary.
60. What is concept development? Use some sketches to support your answers.
61. Design a small house with all needed requirement spaces with in 100m², scale 1/50
62. Design a villa with all basic requirements on 1000m² with in two floor, Scale 1/50
63. Design a plan and a section for a classroom including all needed standard for the tables, chairs, smartboard, windowsetc., scale 1/50
64. How can we achieve sustainable school design?
65. What area the three main component of sustainable house?
66. Design a school classrooms cluster for the grade 1-3, scale 1/50, is there any difference in design while we design for the grad 6-9? Give some example with your answers.
67. What are the factors to be considered in the design of a **library** building?
68. What are the requirements for **elementary school design**?
69. What is an ideal kitchen layout in **restaurant** for school building? (Enhance your answer by sketching)
70. Why is **outdoor learning** important in elementary schools?
71. What do you put in a school **playground** for grade 1,2,and 3?(just count)
72. What are the numbers of a **car parking** for 40persons, how to calculate them?
73. In your opinion, school building is a functional or form building.....
74. Design a **multipurpose hall**, the basic layout of the hall is a free shape with maximum of 500 seats, the basic dimension 25*40.(plan ,section and front of elevation ,scale 1:50)
75. How to design shelter (**waiting area** for students and teachers) of car parking space. Support your answers by drawing sketches and including **access** students from main entrance to entrance of classroom)
76. Design of **administrative office** in school building (number of staff 25 members) should be including (plan ,section and main elevation)
77. What are **activities outside** of the classroom for grade 7, 8, and 9? (Examples and mention)?
78. What are the criteria for **selecting site** of school building?
79. What are the factors to be considered when designing a **laboratory**? explain it
80. Which is the best orientation **for classroom**? Why? Explain it?
81. Explain types of space organization through sketch?
82. How you select type of circulation in educational building?
83. Define school and its function and design criteria?
84. What are specifications of modern design for educational building (elementary school)?
85. Design space program for a elementary school of 150 students?
86. Compare local elementary school design with international primary school design?
87. How you develop local elementary school?
88. Modify local classroom design for students to increase their comfort?
89. Identify best shape for elementary school at mountain?

90. Select right color composition for elementary school
91. Design a colorful classroom for student's age from 10 to 12 years old?
92. How you enhance activity in elementary school?
93. How you motivate students through design?
94. Design modern library using contrast color?
95. Analyze three local libraries and three international library, then compare design solution?
96. Identify best design criteria for local elementary school growth?
97. Explain role of color composition in elementary school?
98. Sketch three mass model identify which type suitable for elementary school?
99. Draw modern landscapes that enhance student activity and productivity?
100. Explain types of educational building?