

Khulna University of Engineering & Technology

Department of Architecture

B. Arch 1st Year 2nd Term Regular Examination, 2022

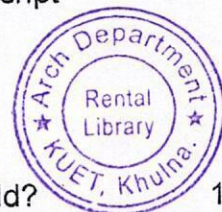
Course No: HUM 1225

Course Title: Basics of Sociology

Full Marks: 210

Time: 03 Hours

- N.B i) Answer any three questions from each section in separate script
ii) Figures in the right margin indicate full marks



Section-A

1. a) Explain the relationship between sociology and the rural world? 10
b) What are the similarities between industrial society and modern industrial society? 10
c) "Societies have passed on from one stage to another."- Discuss. 15
2. a) Explain the importance of gender to socialization. 10
b) Elaborate the concept 'Gender' in global perspective. 15
c) Describe the general principles of Feminist ideas. 10
3. a) Explain the development of culture as a human strategy for survival. 10
b) Identify common elements of culture. 15
c) What is the relationship between material culture and technology? 10
4. a) What do you understand by social structure? Write down the fundamental constituent of social structure. 10
b) Define socialization and explain the agents of socialization. 10
c) What is social conformity? What are the levels that take place for social conformity? 15

Section-B

5. a) What are the modifying factors of house form? 15
b) Explain the significance of neighborhood for social well-being in the society? 10
c) Write down the alternative ways to consider neighborhood boundaries. 10
6. a) Why is built environment crucial in modern period? 10
b) How can you define healthy built environment? What are the direct and indirect effects of natural environment in creating the built environment? 15
c) Explain the categories of built environment. 10
7. a) What are the dimensions of globalization? Discuss them. 10
b) How does globalization affect our social system? 10
c) What are the responsibilities of an architect in the development of built environment? 15
8. a) What do you understand by urban ecology? 10
b) Explain Louis Wirth's view of urbanism. 15
c) Discuss the nature of urbanization in the third world countries. 10

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B. Arch 1st Year 2nd Term Regular Examination, 2022

Course No: Arch 1255

Course Title: Climate and Built Environment

Full Marks: 210

Time: 03 Hours

- N.B i) Answer any three questions from each section in separate script
ii) Figures in the right margin indicate full marks



Section-A

1. a) What do you understand by tropical climate? Discuss the following aspects of hot-dry desert climate: 5+15
=20
 - i. Air temperature
 - ii. Humidity
 - iii. Precipitation
- b) In how many ways does the earth's surface release heat to the atmosphere? Explain with a diagram. 15
2. a) What do you understand by site climate? Describe the local factors which affect a specific site's climate differently from the concerned regional climate. 5+15
=20
- b) How do local factors affect the amount of solar radiation a particular site receives? Explain. 15
3. a) Explain the thermoregulatory mechanism of the human body. 20
- b) Write short notes on: 2*7.5
=15
 - i. Thermal Comfort
 - ii. The Bioclimatic Chart
4. a) What is sol-air temperature? State some application of sol-air temperature concept in different heat exchange situations. 10+10
=20
- b) How can you determine the convection heat flow rate between the indoor and outdoor air? Explain. 15

Section-B

5. a) Explain your concern about climate as a student of Architecture. 10
- b) What is stack effect? Illustrate stack effect considering a detailed section. 25
6. a) Differentiate between active and passive climatic control. 10
- b) Elucidate the factors that affect the indoor air flow or ventilation of a building with necessary diagrams. 25
7. a) Mention in brief few of the ways through which the Bengal Hut indigenously ensures indoor climatic comfort. 10
- b) Illustrate the Bengal matrix with a schematic diagram and analyze its formation with reference to a contemporary project of our country. 25
8. a) What is the most defining factor in the design of Friendship Centre, Gaibandha? Describe the factor in brief. 10
- b) Which passive design strategies would you follow in designing for a tropical climate like Bangladesh? Elucidate with strategies diagrams. 25

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B. Arch 1st Year 2nd Term Regular Examination, 2022

Course No: Arch 1233

Course Title: Art History

Full Marks: 210

Time: 03 Hours

- N.B i) Answer any three questions from each section in separate script
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Section-A

1. a) Pottery is an important art form of Greek period. Discuss the features of Greek pottery in your own words with necessary details. 17
b) Egyptian sculpture expresses monumentality order and stability featuring their spiritual beliefs. - Explain. 18
2. a) Art is a vehicle of human development for centuries. It is about our own creative expressions and those of our past'. Elaborate this statement and discuss different values of art with example. 25
b) Discuss the art of Prehistoric period using Stonehenge as an example. 10
3. a) Write short note on 'The Holy Trinity'. 08
b) Make a comparison of Early Christian religious sculptures with Graeco-Roman ones stating the features of it. 12
c) Explain the striking features of apse mosaic works of San Vitale Church. 15
4. a) Stained glass window is one of the main features of Gothic style. - Explain. 15
b) Differentiate the characteristics of the door jamb statues in west and south transept façade of Chartres Cathedral, use necessary details. 10
c) Evaluate Leonardo da Vinci's 'The Last Supper' in your own words. 10

Section-B

5. a) What makes Baroque Style of art different? 05
b) In what ways would you identify the similarities between a Baroque and a Contemporary artist in terms of space and mind? 30
6. a) Differentiate Realism from Impressionism. 05
b) "Color could be independent from form and composition as an essential and aesthetic bearer of meaning"-refer to a colourist painting in favor of your way of justifying this statement. 30
7. a) Define Constructivist Art. 05
b) Differentiate the 'Introvertedness' of Pollock's paintings from the 'Extrovertedness' of Banksy's ones. 30
8. a) How has Bengal Renaissance helped to shape our art after the partition and in the '50s? 10
b) Do you consent to the fact that some of the best paintings of our country have emerged out of some of the worst moment of our war? Rationalize your answer. 25

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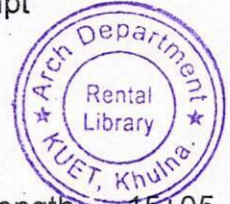
Course No: Arch 1265

Course Title: Building and Finish Material

Full Marks: 210

Time: 03 Hours

- N.B i) Answer any three questions from each section in separate script
ii) Figures in the right margin indicate full marks



Section-A

1. a) Explain the physical characteristics of concrete in terms of Strength, Durability and Workability. Write down the factors that affect the properties of concrete. 15+05 =20
b) Briefly discuss the properties of good building stone. 15
2. a) Describe the pros and cons of steel construction. 15
b) Describe the following methods of construction with Mud with proper illustrations (any two): 02X10 =20
 - i) Cob
 - ii) Rammed Earth
 - iii) Waffle and daub
3. a) Write down the general guidelines for proper brick construction. 20
b) Briefly write the basic qualities of a good brick. 15
4. a) Describe the characteristics of Bamboo in detail. 15
b) Explain different types of defects and decay in timber with proper illustration. 20

Section-B

5. a) When it comes to finishing a structure, why do people go for cement plastering more than any other plastering methods? Explain. 15
b) Imagine you are explaining the importance of high-quality plaster work with your staff on a construction site. What can lead to poor plastering? Specify the types of problems and suggest potential remedies. 20
6. a) Why is luminescent paint used in buildings? Explain the rationale for the application of paint finish to a building. 10+10 =20
b) Explain the procedure for applying paint to a surface that has been finished with cement plastering. 15
7. a) Explore the pros and cons of installing tiles on various interior walls. 15
b) Suppose, you go to the site and see that the mason is installing the tiles incorrectly. To avoid this, you have to explain the step-by-step process of installing the tiles to mason. What are the processes for installing tiles? 20
8. a) What do you mean by industrial wood? Explain the advantages and disadvantages of using industrial woods in a building. 20
b) Specify the various varieties of glass and their application in different functional environments. 15