

Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2018

Course No: Arch 1233

Course title: Art History

Full Marks 210

Time 3 Hours

N.B Answer any Three questions from each section in separate script.

Figure in the right margin indicate Full Marks.



- | | | |
|---|---|-----|
| 1 | a. Write in your words about Greek Pottery. | 10 |
| | b. Analyze different aspects of Greek Sculpture. | 25 |
| 2 | a. Write the background of the Early Renaissance. | 10 |
| | b. Elucidate in your own words about Da Vinci's The Last Supper | 25 |
| 3 | a. Illustrate Raphael's portrait Julius II | 10 |
| | b. Analyze and Synthesize Michelangelo's Sistine Ceiling | 25 |
| 4 | Write Short Notes on, | 7X5 |
| | i. Material Value | =35 |
| | ii. Intrinsic Value | |
| | iii. Religious Value | |
| | iv. Nationalistic Value | |
| | v. Psychological Value | |

Section B

- | | | |
|---|--|--------|
| 5 | a. Discuss the background of Baroque style. | 10 |
| | b. Evaluate Caravaggio's Boy with Basket of Fruits | 25 |
| 6 | a. Discuss about Artemisia Gentileschi | 10 |
| | b. Elucidate Frans Hal's The Laughing Cavalier | 25 |
| 7 | a. Illustrate Jacques David's The Death of Marat' | 10 |
| | b. Critically analyze Napoleon Enthroned by Jean Auguste Ingres. | 25 |
| 8 | Write short notes on | 7X5=35 |
| | i. Greenough's George Washington | |
| | ii. Pierre Auguste Renoir | |
| | iii. Edgar Degas | |
| | iv. Claude Monet | |
| | v. Vassily Kandinsky | |

Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2018

Course no: Arch 1265 Course title: Building and Finish Material

Full Marks: 210

Time: 3 Hours

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

ii) Figures in the right margin indicate full marks



1. a. Illustrate a brick to denote its header, stretcher and frogs with dimensions? 05
b. Describe four special types of brick with illustration. 15
c. What are the basic qualities of a good brick? Write briefly. 15
2. a. Elaborate the four main constituents of concrete. 10
b. Write down the careful measures to be taken during compaction of concrete. 10
c. Briefly discuss three types of Portland cement and three types of special cement. 15
3. a. Describe five characteristics of good timber. 05
b. Draw the macro structure of Exogenous tree with brief discussion. 10
c. Point out the main natural forces that are responsible for causing defects in timber. Illustrate where necessary. 20
4. a. Write short notes on: (any 05) 25
 - i. Zig-Zag bond
 - ii. Stretcher bond
 - iii. English bond
 - iv. Diagonal bond
 - v. Fine aggregate
 - vi. Coarse aggregate
- b. Write down the characteristics of sand. 10

Section-B

5. a. Distinguish between lime plaster and lime punning. 10
b. Why cement plastering is used as the most common finishing technique for building construction? 10
c. Find out the reasons behind poor plastering. 15
6. a. What are the advantages of using paint in exterior surface of a building? 15

- b. How use of different kinds of finish material in different surfaces effect on "Indoor Environment Quality" of a house? Use examples to explain. 20
7. a. What are the considerations for selecting a proper material for insulation of a building? 15
- b. How an architect can convince a client for using insulating materials in building construction? 20
8. a. Find out the advantages and disadvantages of using tiles at different interior surface of a building. 20
- b. Explain the process of laying floor tiles on a typical floor of a multistoried building. 15

Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2018

Course no: Arch 1255 Course title: Climate and Built Environment

Full Marks: 210

Time: 3 Hours

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

ii) Figures in the right margin indicate full marks



1. a. What is Sol-air temperature? State some application of Sol-air temperature concept in different heat exchange situations. 20
b. Discuss the earth's thermal balance with necessary illustrations. 15
2. a. What are the factors of Site climate? How these factors affect the local air temperature? Discuss with examples. 20
b. What do you understand by urban climate? Discuss the factors causing deviations of the urban climate from the regional macro-climate. 15
3. a. Discuss thermos-regulatory mechanism of the human body. 20
b. Discuss various subjective factors by which our thermal preferences are influenced. 15
4. a. Write short notes on: 3X5=
i. Thermal transmittance (U-value) 15
ii. Density of heat flow rate
iii. Solar gain factor
b. Explain the various heat exchange processes of a building with necessary illustrations. 20

Section-B

5. a. Illustrate stack effect of ventilation system with necessary sketches. 15
b. Describe the purpose of natural ventilation. 10
c. In which way the orientation of building affects indoor thermal environment, discuss in brief. 10
6. a. "Adequate Climatic Knowledge is mandatory for every architect before designing any space", to what extent do you agree with this statement? 15
b. How Solar radiation affects thermal comfort of indoor space, interpret with necessary sketches. 20
7. a. Distinguish between active and passive climatic control with proper examples. 10
b. "Court-yard is the most effective means of ventilation system in warm humid climatic region". Justify the statement by your own perception with necessary sketches. 25
8. a. Elaborate the characteristics of roof's and material's which have been using in warm-humid climate for ensuring thermal comfort. 15
b. Write short notes on (any two)- 02X10=
i. Form and planning of composite climate 20
ii. Traditional shelter of hot-dry climate
iii. Horizontal shadow angle

Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2018


Course No: Hum 1225 Course title: Sociology

Full Marks 210

Time 3 Hours

N.B Answer any Three questions from each section in separate script.

Figure in the right margin indicate Full Marks.

- 
- 1 a. Define Sociology. 05
b. Describe the origin of 'Sociology' as a separate discipline. 15
c. Explain the impact of studying Sociology for the students of Architecture. 15
- 2 a. What is sociological perspective? Critically explain major Sociological Perspectives. 20
b. What do you mean by Society? Describe type and distinctive characteristics of society. 15
- 3 a. What is community? Explain basic pre-conditions of community. 15
b. What is meant by Culture? Describe functions and characteristics of culture with example from your own society. 15
c. What is Cultural Shock? Explain with example. 05
- 4 a. Is there any relation between culture and architecture? Explain with relevant example from countries around the world. 10
b. What is civilization? Critically explain elements of civilization. 15
c. What is cultural lag? Explain it in the light of your own society. 10

Section B

- 5 a. What do you mean by Globalization? 05
b. What is Global Society? 05
c. Describe the importance of Globalization. 25
- 6 a. What do you mean by Urban Ecology? Critically explain major Urban Growth Models. 20
b. What is Urbanization? Discuss impact of rapid urbanization on architectural design. 15
- 7 a. What is social stratification? 05
b. Describe the characteristics of social stratification. 10
c. Explain the various types of social stratification with examples. 20
- 8 a. What is the meaning of Social Control? 05
b. Describe the agencies of Social Control. 20
c. Discuss about the necessities of Social Control. 10