

Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2019

Course no: Arch 1233

Course title: Art History

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.

Section A

1. a. What are the different branches of Art? 10
b. Discuss in details the different values of Art. 25
2. a. Write briefly about High Renaissance. 10
b. Critically elucidate and evaluate Michelangelo's work. 25
3. a. Illustrate Raphael's 'Madonna of the Meadow' 10
b. Critically analyze and synthesize Da Vinci's work. 25
4. Write Short Notes:
a. Masaccio's –The Holy Trinity 7x5=35
b. Donatello's- Gattamelate
c. The Monalisa
d. Louis David- The Oath of Horatti
e. The declaration of Independence by John Trumbell.

Section B

5. a. What are the characteristics of 19th century's Impressionist work. 10
b. Elucidate Edouard Manet's 'A bar at Folies –Bergere.' 25
6. a. What are the two streams of Post Impressionism? 10
b. Critically evaluate Vincent Van Gogh's important works 25
7. a. Discuss about Artemesia Gentileschi 15
b. Discuss and analyze The Laughing Cavalier by Frans' Hals. 20
8. a. Discuss Naksha and Terracotta. 15
b. Illustrate the categories of Folk Art in a chart. 20

Khulna University of Engineering and Technology
Department of Architecture
B. Arch 1st Year 2nd Term Regular Examination, 2019
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.

Section-A

1. a) In how many ways stones can be classified? Briefly discuss the geological classification of building stones. 15
- b) Write a short note on: 15
- I. Granite
 - II. Sandstone
 - III. Formation of Igneous Rock (Illustrate)
- c) Explain the common use of building stones in Bangladesh. 05
2. a) Explain the physical characteristics of concrete in terms of Strength, Durability and Workability. Mention the factors that affect the properties of Concrete. (15+5) =20
- b) Write a short note on "Dry Method" for manufacturing Portland Cement. 10
- c) Mention the names of various categories of Cement available in Bangladesh. 05
3. a) Briefly discuss the characteristics of good bricks. 20
- b) What are the basic constituents of Brick Clay? Explain the desirable physical and chemical functions of Brick clay for a good brickwork. 15
4. a) Draw a cross section of Exogenous tree and explain; 15
- I. Sapwood and Heartwood
 - II. Annual ring and Pith
- b) Explain different types of defects and decay in timber with proper illustrations. 20

Section-B

5. a) What is Plaster? As an architect which types of plaster you will suggest for a factory building and why? 10
- b) Suppose, during construction, to maintain good quality of plaster work you are discussing with your workers. What can cause bad plastering, describe their types and also suggest some solutions. 25
6. a) How paint is made and why those components were used in making paints? 10
- b) For a "Complete interior work" you have to use different types of paints. What types of paints will you use for what and why? Explain. 25

7. a) What is terrazzo? As an architect what types of terrazzo will you prefer for your university's Outdoor and Indoor spaces? Describe with proper justification. 20
- b) How tiles are made and what are the features of good tiles? 10
- c) What are the purposes of Varnishing? 05
8. a) Which installation process is complicated between tiles and terrazzo? Compare both installation process in detail to establish your opinion. 25
- b) What is ACP? Write down the features of ACP. 10

Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2019

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.

Section-A

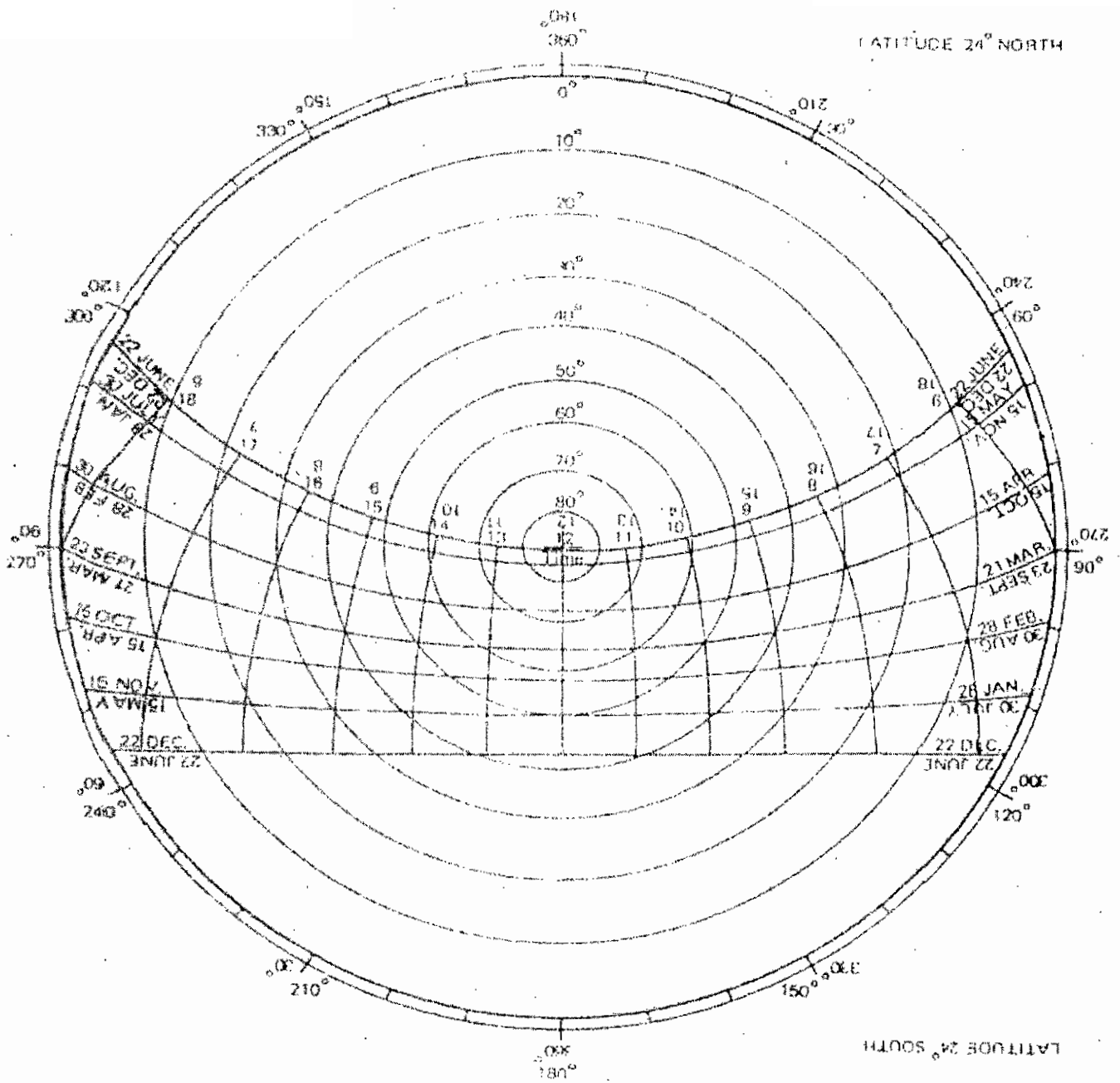
1. a. 'The earth-sun relationship affects the amount of radiation received on earth's surface'- Do you agree with the statement? Give reasons for your answer. 15
b. Discuss the major attributes of Hot-Dry desert climate. 20
2. a. What are the factors of Site climate? How these factors affect precipitation? Discuss with examples. 15
b. Write short notes on: 2X10=20
i) Temperature Inversion
ii) Funneling Effect
3. a. What do you understand by thermal comfort? Explain thermo-regulatory mechanism of the human body. 15
b. Write short notes on: 2X10=20
i) Corrected Effective Temperature (CET)
ii) Mean Radiant Temperature (MRT)
4. a. What do you understand by Sol-air temperature? Discuss its application. 15
b. What is periodic heat flow? Discuss time-lag and decrement factor. 20

Section-B

5. a. How the study of periodic heat flow helps in design phase of climate responsive building. 10
b. Define vertical shadow angle. 05
c. Illustrate the characteristics of courtyard to solve climatic issues in Hot Dry climate. 20
6. a. Write short note on (any two): 2X10=20
i) The Solar Altitude Angle
ii) Traditional Shelter of Composite climate
iii) Air flow around building
b. How shading devices control the solar radiation in interior space, discuss with sketches. 15
7. a. Define Ventilation System. What is Plenum Ventilation System? 15
b. Why tunnel effect of ventilation system is using in apartment building to solve climate, discuss with illustrations. 20

8. a. What is Thermal Capacity? Describe the role of Thermal Insulation for ensuring climatic comfort of space. 15
- b. Calculate the required horizontal shading device for given condition of a building: 20
- Facing- South
- Opening Size- 5'X6'
- Date- 12 June
- Time- 3 p.m.

Figure for question No: 8(b)



Khulna University of Engineering and Technology

Department of Architecture

B.Arch 1st Year 2nd Term Regular Examination, 2019

Course no: Hum1225

Course title: Basics of Sociology

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.

Section A

1. a. What is sociology? 05
b. Describe the origin of 'Sociology' as a separate discipline 15
c. Discuss the importance of studying sociology for the students of Architecture 15
2. a. Critically discuss scope of Sociology with example from your own society 15
b. What are the differences between society and community? 10
c. Explain nature of Sociology in the light of your own society. 10
3. a. What do you mean by Sociological perspective? Critically explain major sociological perspectives. 20
b. Discuss contributing factors behind origin and development of sociology as a distinct science. 15
4. a. What is meant by culture? Discuss impact of culture on house form. 10
b. Define society. Discuss distinctive features of different types of society 15
c. Explain elements of civilization with example. 10

Section B

5. a. What is Globalization? 05
b. Show the impact of globalization around the world. 10
c. How Globalization influence to the change of our society from traditional to modern stage- explain it with example. 20
6. a. What is social stratification. 05
b. Explain the major characteristics of social stratification 15
c. Briefly describe the social stratification system in Bangladesh 15
7. a. What do you mean by social control ? 05
b. Explain the major agencies of social control and their function with example. 20
c. Define religion. Describe the functions of religion in our life. 10

8. a. What is Urban Ecology? Discuss major urban growth models with example. 20
- b. What do you mean by religion? Explain role of religion in strengthening social harmony. 15