

L-1/T-2/ARCH

Date : 23/09/2013

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-1/T-2, B. Arch. Examinations 2011-2012

Sub : **ARCH 147** (Art Appreciation)

Full Marks : 140

Time : 3 Hours

The figures in the margin indicate full marks.

USE SEPARATE SCRIPTS FOR EACH SECTION

SECTION – A

There are **FIVE** questions in this section. Answer **Q. No. 1** and any **THREE** from the rest.

1. Mention the classification of Visual Art with example. (25)
2. What to look for in art? Explain with example. (15)
3. Write short notes on any **THREE** of the following (3×5=15)
(a) Dry media in Drawing (b) Performing art (c) Mixed-media (d) Graphic Design
(e) Textile Design
4. Define sculpture and discuss the traditional means of making sculpture. (15)
5. What are the methods of printmaking? Give a short note on Intaglio process of printmaking. (15)

SECTION – B

There are **FIVE** questions in this section. Answer **Q. No. 6** and any **THREE** from the rest.

6. Define 'art and beauty' and discuss the relevance of Art Appreciation subject in architectural studies. (25)
7. "They were dubbed 'impressionist' by a critic who objected to the sketchy quality of their painting" – Who were they? Write short notes on their painting style. (15)
8. What are the differences between the eastern and the western art? (15)
9. "Four painters whose works best exemplify postimpressionist attitude" – Who were they? Give short notes on their painting. (15)
10. Write short notes on any **THREE** of the followings: (15)
(a) Abstract Art (b) Surrealism (c) Neoclassicism (d) Romanticism (e) Realism

Signature
08/07/13

L-1/T-2/ARCH

Date : 08/07/2013

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-1/T-2 B. Arch. Examinations 2011-2012

Sub : ARCH 163 (Building and Finish Material)

Full Marks: 140

Time : 3 Hours

USE SEPARATE SCRIPTS FOR EACH SECTION

The figures in the margin indicate full marks.

SECTION – A

There are **FOUR** questions in this section. Answer Q. No. 1 and any **TWO** from the rest.

1. (a) Briefly discuss the geological classification of building stones. **(10)**
(b) Write short notes on: **(10)**
 - (i) Granite
 - (ii) Sandstone

2. (a) Explain the harmful constituents of brick clay. **(5)**
(b) Briefly discuss the characteristics of good bricks. **(20)**

3. Briefly discuss the factors affecting the properties of concrete. **(25)**

4. (a) Write short notes on: **(10)**
 - (i) Spring and Summer wood
 - (ii) Sapwood and Heart wood
(b) Briefly discuss the different methods of wood seasoning. **(15)**

SECTION – B

There are **FOUR** questions in this section. Answer Q. No. 5 and any **TWO** from the rest.

5. (a) Define glass and describe the general and architecturally important characteristics of glass. **(5)**
(b) Explain with sketches the 'Fourcault Process' of glass manufacturing. **(5)**
(c) Explain the following glasses with sketches where necessary **(2×5=10)**
 - glass block
 - glass fibre
 - Corrugated glass
 - Heating absorbing and glare reducing glass
 - Celluler or foamed glass.

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6. (a) Describe with sketches the application process of 'Artificial Patent Stone' floor and Wall Finish. (10)
- (b) Explain Different types of 'Clay tiles' in respect to their Degree of Vitrification, Composition of the tile body and surface Finish quality. (15)
7. (a) Name different types of 'Paint Coating' according to paints characteristics. (5)
- (b) Describe the following 'Paint Coatings': (5×4=20)
- Pigmented Paint Coating
 - Clear Coating
 - Bituminous Coating
 - Rust Preventive Coating
8. Write short notes on the followings (any five): (5×5=25)
- (a) Vehicle of Paint
 - (b) Terrazzo floor finish
 - (c) Glass wool
 - (d) Hiding power of Paint
 - (e) Extended pigment
 - (f) Unglazed tiles.
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Nusrat Ghani
23.9.13

L-1/T-2/ARCH

Date : 23/09/2013

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-1/T-2 B. Arch. Examinations 2011-2012

Sub : **ARCH 177** (Music Appreciation)

Full Marks : 140

Time : 3 Hours

The figures in the margin indicate full marks.

USE SEPARATE SCRIPTS FOR EACH SECTION

SECTION – A

There are **FOUR** questions in this section. Answer **Q. No. 1** and any **TWO** from the rest.

1. Differentiate between: (3×10=30)
(a) Scale and keynote (b) Noise and musical notes (c) Dhrupad and Thumri
2. (a) Explain the relationship between Architecture and Music. (10)
(b) What are the main ingredients of music? Elaborate. (10)
3. (a) Discuss the concepts of melody and harmony in musical construction. (10)
(b) Write about the conditions in 19th Century Bengal and how they influenced the urban music of that time in the region. (10)
4. Elaborate on the basic structuring of the North Indian Classical Music System explaining in details the Theata and Raaga concepts. (20)

SECTION – B

There are **FOUR** questions in this section. **Q. No. 5** is compulsory.

Answer any **TWO** from the rest.

5. Write short notes on (3×10=30)
(a) Atul Prasad Sen (b) Ram Nidhi Gupta (c) D. L. Roy
6. (a) What is Folk music and how did it evolve? (5)
(b) Discuss the Folk music of Bengal emphasizing three main branches of this musical stream. (15)
7. Write in details about the life and musical works of Rabindranath Tagore explaining their interconnections. (20)
8. Kazi Nazrul Islam's musical compositions are extremely diverse – explain in details with reference to his life experiences. (20)

L-1/T-2/ARCH

Date : 29/09/2013

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-1/T-2 B. Arch. Examinations 2011-2012

Sub : **ARCH 143** (Art and Architecture II)

Full Marks : 140

Time : 3 Hours

The figures in the margin indicate full marks.

USE SEPARATE SCRIPTS FOR EACH SECTION

SECTION – A

There are **FIVE** questions in this Section. Answer Q. No. 1 and any **THREE** from the rest.

1. Write short notes on any three of the following: (3×8 1/3=25)
 - (a) Baptisteries
 - (b) Catacomb and Cubicula
 - (c) Explain "Domed, Centralized type plan of Byzantine Architecture"
 - (d) Draw formation of Byzantine dome
 - (e) Draw any four English Gothic Vault

2. Briefly describe the architectural characteristics of Basilican Church of S. Peter (Rome 330) with sketches. (15)

3. "The cathedral is one of the finest of Romanesque Period and strongly marked individuality", briefly describe Pisa cathedral with relevant sketches. (15)

4. Compare the architectural characteristics of 'Early Christian Period' and 'Byzantine Period'. (15)

5. State the architectural characteristics of 'French Gothic Period' with relevant examples and sketches. (15)

SECTION – B

There are **FIVE** questions in this Section. Answer Q. No. 6 and any **THREE** from the rest.

6. Write short notes on (Any three): (3×8 1/3=25)
 - (a) Villa Rotunda or Villa Capra, Vicenza
 - (b) Tempietto, Rome
 - (c) The Last Supper
 - (d) Monalisa and 'Sfumato' technique

7. Discuss St. Peter's Church of High Renaissance period to explain the style of Michelangelo's work. (15)

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8. Explain Filippo Brunelleschi's contribution in early Renaissance architecture and describe 'Dome of Florence Cathedral' as an example of his work. **(15)**

 9. State the architectural characteristics of 'Early Renaissance Period' with necessary sketches and examples. **(15)**

 10. Explain the term 'Renaissance Man'. Briefly describe the work of 'Leonardo-da-Vinci' as a true Renaissance man. **(15)**
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L-1/T-2/ARCH

Date : 06/10/2013

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-1/T-2 B. Arch. Examinations 2011-2012

Sub : **ARCH 173** (Society and Architecture of Bengal)

Full Marks: 140

Time : 3 Hours

USE SEPARATE SCRIPTS FOR EACH SECTION

The figures in the margin indicate full marks.

SECTION – AThere are **FIVE** questions in this section. Answer Q. No. 1 and any **THREE** from the rest.

1. (a) Identify the approximate geographical locations of any five ancient jnoppadas and three cities of Bengal on a map with their sources of reference. (13)
- (b) Write short notes on (any three): (9)
 - (i) Charjapada
 - (ii) Huen Tsong's observation on ancient Buddhist cities
 - (iii) Atish Dipankar
 - (iv) Parshuram's palace.
2. Explain how the Vedic cities were planned at the beginning. (4)
Describe the city of Pataliputra and its decorative features. Explain how the foundation of the city was laid (use sketches). Mention how the city was administered. (12)
3. Illustrate and describe the planning and layout of Nalanda Vishyavidyaloya and its education, administrative system. (16)
4. Identify the conceptual difference between the temple plan of Paharpur and Shalbon Vihara. Explain why such changes were necessary in the development of central temple. (16)
5. Describe Kotila Mura with neat sketches showing sectional plan and conjectural elevation. (10)
Mention with examples the contribution of scholars in the areas of Ayurvedshastra, astrology, science and literature during the Pala regime. (6)

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SECTION – B

There are **FIVE** questions in this section. Answer Q. No. 6 and any **THREE** from the rest.

- 6f. Answer the following short Question (Any THREE) (7 1/3 × 3 = 22)
- (a) Draw an isometric view and show the essential features of an Indian mosque.
 - (b) Explain how the drum of the dome negotiated in the front elevation of a Mughul mosque.
 - (c) What are the basic differences identified in a pre-Mughul Bengal mosque in relation to the above.
 - (d) Explain how the load of a hemispherical shallow dome was distributed through the columns in a pre-Mughul mosque of Bengal.
7. (a) Explain how Islamic building art is resolved into three phases. (8)
(b) Draw the plan and elevation of Shaith Gumbad mosque at Bagerhat and compare the specific features of the style expressed in Tugluq period of Delhi. (8)
8. Describe the basic functional layout, commonly used architectural elements in the elevation and parapet, window details etc. in the late 19th and early 20th C. mansions of old Dhaka. (16)
9. Compared with the Jami masjid of Delhi, what major components and features are absent in Adina masjid? Mention with details the most impressive portion of the mosque, use sketches. (16)
10. Explain how Mughal architectural features are incorporated and adopted in its planning, 3-dimensional expression and facade treatment of Curzon Hall. (16)
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Ahmed
16.9.13

L-1/T-2/ARCH

Date : 24/07/2013

BANGLADESH UNIVERSITY OF ENGINEERING AND TECHNOLOGY, DHAKA

L-1/T-2 B. Arch. Examinations 2011-2012

Sub : **ARCH 133** (Environment and Design I : Climate and Design)

Full Marks : 140

Time : 3 Hours

The figures in the margin indicate full marks.

USE SEPARATE SCRIPTS FOR EACH SECTION

SECTION - A

There are **FOUR** questions in this section. Answer **Q. No. 1** and any **TWO** from the rest.

1. Write short notes on any TWO from the following: (10+10=20)
 - (a) Urban Climate
 - (b) Conductance and Resistance
 - (c) Earth's thermal balance

2. Compare between 'Heat Exchange Process of a Building' and 'Heat Exchange of a Human Body' with necessary equations and illustrations. (25)

3. Briefly describe the key features of Warm-humid, Hot-Dry and Composite Climates. (25)

4. Explain elaborately the term 'Site Analysis' with necessary sketches on the basis of climatic factors. (25)

SECTION - B

There are **FOUR** questions in this section. Answer **Q. No. 5** and any **TWO** from the rest.

5. Write short notes on any TWO from the following: (10×2=20)
 - (a) Design criteria for shelter in hot-dry climate
 - (b) Evaporative Cooling
 - (c) Stack Effect

 6. Elaborate the objective of thermal controls and problems associated with cooling. (25)

 7. Discuss the design principles and positioning of openings in Buildings considering air movement. (25)

 8. Discuss design strategies for shelter in Warm-Humid climate with one example of vernacular architecture of our context. (25)
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