

MANMOHAN TECHNICAL UNIVERSITY
OFFICE OF THE CONTROLLER OF EXAMINATIONS
Model Question, 2080 Asar

Level: Bachelor
Faculty: School of Engineering
Program: Civil
Subject: Fundamentals of Architecture (EG457AR)

Year/Part: I/II
F.M.: 50
P.M.: 20
Time: 3 Hours

Candidates are required to give answers in their own words as far as practicable.
The figures in the margin indicate Full Marks.

Group A (Multiple Choice Questions)

[10X1= 10]

Maximum time of 20 minutes within the total time is given for this group.

Answers should be given by filling Tick the objective answer sheet.

1. Architecture is the combination of:

Art Science Technology

All of the above

2. A successful design is the result of series of steps known as:

Design process Bubble Diagram Site Analysis

3. Another name for Stonehenge is:

Prehistoric Temple Palace Town hall

4. Modern Architecture consists of modern materials like

Glass Steel Aluminium

All of the above

5. Which one is not primary shape?

Circle Square Triangle Trapezium

6. A plane curve which is equidistant from a fixed point within the curve is:

Triangle Square Circle None of these

7. Lower portion of the building, usually located below the ground level is:

Sub-structure Super-structure None of these

8. A Horizontal Structural member provided over door, windows or other openings:

Sill Lintel Column None of these

9. Properties of Mortar

- Mobility Place ability Water retention
 All of the above

10. Freehand drawing is the ability to draw something without depending on:

- Instruments Nature Printer

Group B (Attempt all Eight Questions)

[8X2= 16]

1. List out the four bases for development of Architecture. (2)
2. List out the seven steps of Design process. (2)
3. What were the materials used for construction during Egyptian period? (2)
4. What are the primary elements of architecture? (2)
5. Classify the types of buildings based on their functional use. (2)
6. List out the requirements of concrete. (2)
7. What is MEP stands for? Why is it needed? (2)
8. What are the three types of views in perspective drawing? (2)

Group C (Attempt all Six Questions)

[6X4= 24]

1. Architecture has evolved over time and has been shaped by cultural, social and technological developments as well as artistic and aesthetic movements. Explain. (4)
2. Explain the basic tendencies of architectural development with reference to materials, technology and human civilizations. (4)
3. Architectural form is the contact between mass and space. Justify the statement. (4)
4. What are the various construction systems? Explain modern technologies in practice. (4)
5. What are the roles of materials and construction technology in Architecture? Explain. (4)
6. Write short notes on any **TWO**: (2+2= 4)
 - a. Free hand sketching
 - b. Proportion and Scale
 - c. Orthographic projection
 - d. Perspective views
 - e. Computer Aided Design and Drafting (CADD).
