

Day : Friday
Date : 04.12.2015

Time : 10.00 A.M. To 1.00 P.M.
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw sketches **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - I

- Q.1 A) Match the column:** [05]
- | | |
|------------------|--------------------------------|
| a) Trilithon | i) Citadel of Tyryns |
| b) Dromos | ii) Greek entrance portal |
| c) Gorge cornice | iii) Part of Egyptian building |
| d) Propylea | iv) Treasury of Atreus |
| e) Lion gate | v) Stonehenge |
- B) Fill in the blanks:** [05]
- a) A richly carved coffin as seen in Egyptian architecture has called _____ (Cenotaph, Sacrophagus).
 - b) Gorge cornice is characteristic to _____ architecture (Egyptian, Greek).
 - c) Tripylons are seen in the _____ palace (Persian, Assyrian).
 - d) Tapering column are characteristic to _____ civilization (Minoan, Mycenaean).
 - e) The land between rivers Tigris and Euphrates was called as _____ (Mesopotamia, Meso America).
- Q.2 Explain ANY FIVE of the following terms with reference to context:** [20]
- | | |
|----------------------|---------------------|
| a) Mastaba | d) Ziggurat |
| b) Dolmen and menhir | e) Megaron |
| c) Entablature | f) Corinthian order |
- Q.3 Draw neat labeled sketch of ANY ONE of the following:** [10]
- a) Greek amphitheatre – Epidaurus (plan + view).
 - b) Egyptian cult temple – Karnak (plan + section).
- Q.4 Answer ANY TWO of the following:** [20]
- a) Explain the architectural character of Egyptian period with respect to temple architecture in Egypt.
 - b) Explain influence of geography on the west Asiatic architecture with examples.
 - c) Explain the Greek optical correction with illustrations.

SECTION - II

- Q.5 Explain factors affecting climate at Micro Scale.** [15]
- Q.6 Answer ANY TWO of the following:** [15]
- a) What do you mean by the phrase 'Design with climate'? Explain with help of example.
 - b) Explain influence of topography on Macro Scale Climate.
 - c) Explain role of vegetation in achieving comfort condition.
- Q.7 Write short notes on ANY TWO of the following:** [10]
- a) Earth's thermal balance
 - b) Urban climate
 - c) Thermal comfort indices

Day : Monday
Date : 02-05-2016

Time : 2:00 P.M. TO 5:00 P.M.
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw sketches **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - I

- Q.1 A) Fill in the blanks:** [05]
- i) An Egyptian entrance portal is called _____. (pylon, obelisk)
 - ii) A Greek entrance portal is called _____. (Propylea, Ishtar)
 - iii) A Mycenaean entrance doorway in Citadel of Tyrins is _____. (lion gate, dromos)
 - iv) Egyptian pictorial script is known as _____. (cuneiform, hieroglyphs)
 - v) A post and lintel system of construction is called _____. (trabeat, archcuate)

- B) Match the following:** [05]
- | | |
|---------------------------|----------------------------|
| a) Treasury of Atreus | i) Persepolis |
| b) Catal Huyuk | ii) Egyptian coffin |
| c) Palace of King Zerexes | iii) Egyptian architecture |
| d) Sarcophagus | iv) Neolithic civilization |
| e) Papyrus capital | v) Mycenaean structure |

- Q.2 Write short notes on ANY FOUR of the following:** [20]
- | | |
|----------------|---------------------------|
| a) Mastaba | d) Oval Temple at Khafaje |
| b) Greek Agora | e) Doric Order |
| c) Stone Henge | |

- Q.3 Draw plan, section, view along with annotations (ANY ONE):** [10]
- | | |
|-------------------------|----------------------|
| a) Egyptian Cult Temple | b) Parthenon, Athens |
|-------------------------|----------------------|

- Q.4 Explain ANY TWO in detail with sketches:** [20]
- a) Explain the planning and features of a West Asiatic Ziggurat complex citing examples.
 - b) Explain the Aegean civilization architectural development on the island and mainland.
 - c) Discuss the evolution of the different types of the Egyptian burial monuments with appropriate examples and sketches.

SECTION - II

- Q.5 Explain factors affecting climate at Macro Scale.** [15]

- Q.6 Answer ANY TWO of the following:** [15]
- a) What do you mean by Bio-climatic chart? What is its significance in Architecture?
 - b) Explain heat exchange process between human body and environment.
 - c) Explain earth's thermal balance with help of sketches.

- Q.7 Write short notes on ANY TWO of the following:** [10]
- a) Green house effect
 - b) Global wind pattern
 - c) Solar radiation - Quality and Quantity

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- 3) Draw sketches **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - I

Q.1 A) Match the column: [05]

- | | |
|---------------------|------------------------|
| a) Abbey Aux Hommes | i) French Gothic |
| b) Worms Cathedral | ii) Roman |
| c) City Churches | iii) French Romanesque |
| d) Pantheon | iv) German Romanesque |
| e) Reims Cathedral | v) English Renaissance |

B) Fill in the blanks: [05]

- a) _____ is the covered pathway around the courtyard (cloister, atrium).
- b) _____ is the rounded east end of Gothic Cathedral (Chevet, Chapel).
- c) Tuscan is a _____ order (Greek, Roman).
- d) A true arch has wedge shaped stones called as _____ (voussoir, springer).
- e) Pointed arch is seen in _____ architecture (Gothic, Renaissance).

Q.2 Explain ANY FIVE of the following terms with reference to context: [20]

- | | |
|-----------------------|------------------------|
| a) Pinnacle and Spire | d) Sexpartite vault |
| b) Buttress | e) Triforium |
| c) Basilica | f) Quadripartite vault |

Q.3 Draw neat labeled sketch of ANY ONE of the following: [10]

- a) St Michele, Pavia (plan + elevation).
- b) Pont Du Gard, France (plan + view).

Q.4 Answer ANY TWO of the following: [20]

- a) What are the characters of Romanesque architecture? Give suitable examples and explain.
- b) Explain illustratively the secular architecture in Europe with reference to types of castle in Medieval Europe.
- c) Write the contribution of architect Andrea Palladio and Sir Christopher Wren in Renaissance architecture. Explain with proper illustrations.

SECTION - II

Q.5 Explain climate characteristics, design guidelines and strategies for Cold and Dry type of climatic zone. [15]

Q.6 Answer ANY TWO of the following: [15]

- a) What are external shading devices? Explain various types with help of sketches.
- b) Explain working of wind-scoop in Hot and Dry type of climate.
- c) Explain various types of controls used for opening.

Q.7 Answer ANY TWO of the following: [10]

- a) Explain Active and Passive means of thermal control with examples.
- b) Explain Solar altitude angle and Solar azimuth angle with sketches.
- c) Explain factors affecting indoor air flow.

Day : Saturday
Date : 30-04-2016

Time : 10:00AM TO 1:00 PM.
Max. Marks : 100

N.B.:

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw sketches **WHEREVER** necessary.
- 4) Answers to both the sections should be written in **SEPARATE** answer books.

SECTION - I

- Q.1 A) Fill in the blanks: [05]
- i) The heart of Roman city was _____. (Forum, Agora)
 - ii) The area of intersection of nave chancel and transept is called _____. (ambulatory, crossing)
 - iii) A courtyard with colonnaded passage around it is called _____. (Atrium, Narthex)
 - iv) One of the fundamental characteristics of Gothic architecture was _____. (pointed arch, semicircular arch)
 - v) The leading Early Renaissance architect was _____. (Alberti, Michelangelo)

- B) Match the following: [05]
- | | |
|---|----------------------------|
| a) Roman Bath | i) Romanesque period |
| b) Baptistry of Constantine | ii) Large spires |
| c) Raking arcade | iii) Renaissance architect |
| d) Gothic Cathedrals are characterized by | iv) Thermae |
| e) Michelangelo | v) Octagonal |

- Q.2 Write short notes on **ANY FOUR** of the following: [20]
- | | |
|------------------------------|--------------------|
| a) Roman Road Construction | d) Tiered arcade |
| b) Parts of Basilican church | e) Peristylar dome |
| c) Tracery windows | |

- Q.3 Draw plan, section, view along with annotations (**ANY ONE**): [10]
- | | |
|-------------|------------------------------|
| a) Pantheon | b) St. Peters Basilica (old) |
|-------------|------------------------------|

- Q.4 Explain **ANY TWO** in detail with sketches: [20]
- a) Explain the structural system of Gothic architecture and use of materials with proper illustrations.
 - b) What are the main characteristics of Romanesque Architecture? Give suitable examples and explain.
 - c) Explain the highlight of Renaissance Architecture giving suitable examples.

SECTION - II

- Q.5 Explain climate characteristics, design guidelines and strategies for cold and dry type of climatic zone. [15]

- Q.6 Answer **ANY TWO** of the following: [15]
- a) Explain air flow patterns with reference to position and size of openings in case of a room.
 - b) Explain allocation of day and night areas in hot and dry type of climatic zone.
 - c) Explain relationship between orientation and size of opening for various climatic zones.

- Q.7 Write short notes on **ANY TWO** of the following: [10]
- a) Stack ventilation
 - b) Control of openings
 - c) Vertical and horizontal shadow angle