

**F. Y. B.ARCH. SEM – II (2010 COURSE) : WINTER - 2017**

**SUBJECT: HISTORY AND BUILDING SCIENCE II**

Day : **Thursday**  
Date : **09/11/2017**

Time **02.00 PM TO 05.00 PM**  
Max. Marks : 100

**W-2017-3248**

**N.B.**

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

**SECTION-I**

- Q.1** A) Match the column [05]
- |                           |                        |
|---------------------------|------------------------|
| a) Rock and shell         | i) Renaissance         |
| b) Quadrapartite vaulting | ii) Roman architecture |
| c) Tracery windows        | iii) Rococo            |
| d) Folding entablature    | iv) Gothic             |
| e) Groin vault            | v) Romanesque          |
- B) Explain **ANY TWO** terms: [05]
- a) Nave
  - b) Narthex
  - c) Campanile
- Q.2** Draw plan and section of **ANY ONE** [15]
- a) Pantheon, Rome
  - b) Circus of Maximus

- Q.3** Explain illustratively. [15]  
Explain the genesis and the characteristic of gothic architecture with help of sketches

**OR**

Explain the architectural features of the eastern and western school of early Christian architecture.

- Q.4** Write short notes on the following: [20]
- a) Castles
  - b) Roman baths
  - c) Tracery windows

**SECTION-II**

- Q.5** Explain planning and design guidelines for buildings in cold- dry and cold- wet type of climatic zone [15]
- Q.6** Answer **ANY TWO** of the following: [15]
- a) What is a wind scoop? Explain its working
  - b) Explain angle of altitude and angle of azimuth
  - c) Explain degree of thermal control
- Q.7** Write short notes on **ANY TWO** the following: [10]
- a) Active and passive means of thermal control.
  - b) Types of shading devices
  - c) Solar chart and its significance in architecture.