

**B.ARCH. SEM – V (CBCS – 2015 COURSE) : WINTER - 2018**  
**SUBJECT : BUILDING SERVICES – III**

Day : Wednesday  
Date : 21/11/2018

**W-2018-3450**

Time : 10.00 AM TO 12.00 PM  
Max. Marks : 60

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**N. B. :**

- 1) Attempt **ANY THREE** questions from each section.
  - 2) Figures to the right indicate **FULL** marks.
  - 3) Answers to both the sections should be written in **SEPARATE** answer books.
  - 4) Draw neat and labeled diagram **WHEREVER** necessary.
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**SECTION – I**

- Q. 1** Write short notes on: (10)  
a) Wind Scoop.  
b) Wing Wall.
- Q. 2** What is Stack Ventilation? How it is effective in Buildings? (10)
- Q. 3** Explain Natural ventilation Strategies used in Hot and Dry Climate. (10)
- Q. 4** Explain in detail Evaporative cooling as ventilation strategy. (10)
- Q. 5** Write short notes on: (10)  
a) Permeable Building.  
b) Solar Chimney.

**SECTION – II**

- Q. 6** Write short notes on: (10)  
a) Centrifugal Fan.  
b) Axial Fan.
- Q. 7** Explain the duct sizing calculations and materials used for duct in Air (10)  
conditioning.
- Q. 8** Write in detail about Central DX (Direct Evaporation) conditioning system (10)  
and its advantages.
- Q. 9** Explain the relevance of courtyard in Natural Ventilation. (10)
- Q.10** Write short notes on: (10)  
a) Air Filters.  
b) Split Air Conditioner.

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