

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

Day : **Monday**
Date : **07/05/2018**

Time : **02.00 PM TO 04.00 PM**
Max. Marks : 60

S-2018-3312

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.

SECTION – I

- Q. 1** Write short notes on: (10)
- a) Bernoulli's Principle.
 - b) Wind Catcher.
- Q. 2** What is Cross ventilation? How it is effective in Humid Climate? (10)
- Q. 3** Explain the relevance of orientation of building on Ventilation with example of Venturi effect. (10)
- Q. 4** Write in detail Sizing of opening affecting on Natural Ventilation. (10)
- Q. 5** Write short notes on: (10)
- a) Air Handling Unit.
 - b) Propeller Fan.

SECTION – II

- Q. 6** Write short notes on: (10)
- a) Positive Displacement Blower.
 - b) Cooling Tower.
- Q. 7** Explain in detail Refrigeration Cycle and its Components. (10)
- Q. 8** Write in detail the Mechanical ventilation system in Industrial Buildings. (10)
- Q. 9** Explain Different types of Duct layout used in Air Conditioning. (10)
- Q.10** Write short notes on: (10)
- a) Window Air Conditioner.
 - b) Psychometric Chart.

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