

$$15 + 2 = 17$$

Examination: B.Architecture-6th Semester

Year: MAY-2018

Subject: BUILDING SERVICES III

Paper code: AR-606

Time allowed: 03 Hours

Max. Marks: 60

- I. *First question is compulsory. Attempt 5 questions in all.*
- II. *Attempt at least one question from each part. Draw sketches where necessary.*
- III. *Assume any missing data/dimension. All questions carry equal marks.*

Q1

- a. What is artificial ventilation?
- b. What is evaporative cooling?
- c. What is reverberation time? (Give formulae also.)
- d. Write short note on panoramic elevator.
- e. Explain briefly escalators.
- f. Write the limitations of building management systems.

2x6=12

PART A

Q2 What is air conditioning? Discuss the principles governing air conditioning.

Q3 Discuss the standards and location of various parts in an air conditioning plant.

PART B

Q4 What is acoustics? Discuss basic principles governing transmission, reverberation, absorption, reflection of sound.

Q5 Give a detailed comparison between the acoustics of an auditorium and an OAT.

PART C

Q6 Discuss in detail the applicability of building management systems to different services in a building.

Q7 What is an intelligent building? Discuss their applicability and limitations in today's scenario.