

Paper Id:

181919

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B. ARCH
(SEM IX) THEORY EXAMINATION 2019-20
SUSTAINABLE AND INTELLIGENT BUILDING

Time: 3 Hours**Total Marks: 50****Note:**

- *Read instructions carefully, attempt accordingly.*
- *Assume any missing data*

SECTION A

Q.1 Attempt any five questions.**(5x2=10)**

- a) Building ecosystem
- b) Intelligent building
- c) Energy efficiency
- d) Water management
- e) Thermal comfort
- f) Passive heating and cooling
- g) Ventilation

SECTION B

Q.2 Attempt any five questions.**(5x5=25)**

- a) What is sustainability .and explain intelligent building.
- b) What is building ecosystem and also explain building life cycle concept.
- c) What is energy efficiency building and also explain vertical transportation system.
- d) What are the principle and strategies of sustainable design?
- e) What is renewable energy and also explain water management.
- f) What is building management system and explain indoor air quality.
- g) What is the nature and function of energy efficient and environmental friendly building?

SECTION C

Q.3 Attempt any two questions**(2x7.5=15)**

- a) What are the social, economical and environmental factors of sustainability and intelligent building? And also explain building life cycle concept.
- b) What is CCTV? Explain method and working of CCTV and also explain the heat ventilation and air conditioning system .in building management system.
- c) Explain environment friendly building .and what is thermal comfort and attendance control and reporting system in building management system