Sub Code: NAR903D

Paper Id: 181919 Roll No: | | | | | | | | | | | | | |

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

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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