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BARE-079

BACHELOR OF ARCHITECTURE (B.Arch.)

Term-End Examination, 2019

BARE-079 : INTELLIGENT BUILDING SYSTEMS (ELECTIVE-2)

Time : 3 Hours]

|Maximum Marks : 70

- Note : Attempt any five questions in total. All questions carry equal marks. Supplement your answers with neat sketches wherever necessary.
- "Complex buildings are often victims of technological obsolescence and changing standards." Explain the interdependence of building intelligence and facility management for the success of an intelligent building.[14]
- Explain the role of lighting simulation and air flow simulation in the design stage of a building in enhancing the value of the design output. [14]
- 3. Explain the terms : [14]
 - (a) Building Management System
 - (b) Building Information Modelling (BIM)

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- 4. What is 'Sickbuilding Syndrome'? Describe how building intelligence can be applied to basic workplace infrastructure to achieve healthy environments. [14]
- 5. Trace the timeline of evolution of Intelligent building concept throughout history. [14]
- 6. Explain the terms and give examples of : [14]
 - (a) Biomimetics
 - (b) Smart materials

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