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**Question Paper Code: 58161**

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2019

One credit

Civil Engineering

15UCE861– GREEN BUILDING CONCEPTS

(Regulation 2015)

Duration: 1.30 hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- The amount of non green house gases present in the atmospheric gases is
  - 95 %
  - 97%
  - 99%
  - 96%
- Sulfur Hexafluoride is
  - SF6
  - S6F
  - S6F6
  - (SF)6
- LEED certified level for a building with silver point ranges from
  - 23-28
  - 33-38
  - 43-48
  - 53-58
- Which of the following is the natural impact for the cause of global warming?
  - volcanoes
  - CO<sub>2</sub>
  - CH<sub>4</sub>
  - NO<sub>2</sub>
- The sustainable concrete reduces the emission of
  - CO<sub>2</sub>
  - CH<sub>4</sub>
  - CFC
  - HFC
- The expansion of ECBC is
  - Energy Consumption Building Code
  - Energy Conservation Building Code
  - Energy Conservation Building Committee
  - Energy Consumption Building Committee

7. Which of the material can be used for construction of green buildings?  
 (a) Wool brick            (b) Solar Panel            (c) Paper Insulation            (d) All the above
8. The expansion for BEE is  
 (a) The Bureau of Environment Efficiency            (b) The Bureau of Energy Efficiency  
 (c) The Building with Environment Efficiency            (d) The Building with Energy Efficiency
9. The expansion of IGBC is  
 (a) Indian Green Building Council            (b) Indian Green Building Committee  
 (c) International Green Building Council            (d) International Green Building Committee
10. The IGBC was formed in the year  
 (a) 2000            (b) 2001            (c) 2002            (d) 2003

PART – B (5 x 2= 10 Marks)

11. What are the materials used for construction of green buildings?
12. Define global warming.
13. What are the demerits of green building?
14. Explain the triple bottom line.
15. List some of the effects of global warming.

PART – C (2x 15= 30 Marks)

16. (a) (i) What do you mean by global warming? Explain the various effects of global warming. (8)  
 (ii) Explain the various sources of global warming. (7)

Or

- (b) Explain the remedial measures that are to be taken for the effects of global warming. (15)
17. (a) (i) Compare the conventional buildings and green buildings. (7)  
 (ii) Explain in detail about the green buildings in different climatic regions. (8)

Or

- (b) (i) Explain the advantages and disadvantages of green buildings. (8)  
 (ii) What are the green house gases? Mention the sources of the green house gases. (7)