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Question Paper Code: 58161

B.E. / B.Tech. DEGREE EXAMINATION, MAY 2018

One credit Course

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
(a) 95 % (b) 97% (c) 99% (d) 96%
- LEED certified level for a building with silver point ranges from
(a) 23-28 (b) 33-38 (c) 43-48 (d) 53-58
- Sulfur Hexafluoride is
(a) SF₆ (b) S₆F (c) S₆F₆ (d) (SF)₆
- The most common green house gas present in the atmosphere is
(a) CO₂ (b) CH₄ (c) CFC (d) HFC
- Which of the following is the government agency for the certification of green building?
(a) TERI (b) NIST (c) DOE (d) All the above
- Which of the following is the natural impact for the cause of global warming?
(a) volcanoes (b) CO₂ (c) CH₄ (d) NO₂

7. The green building Rajiv Gandhi International Airport is in
(a) Chennai (b) Bangalore (c) Hyderabad (d) No Mumbai
8. The sustainable concrete reduces the emission of
(a) CO₂ (b) CH₄ (c) CFC (d) HFC
9. 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
10. The IGBC was formed in the year
(a) 2000 (b) 2001 (c) 2002 (d) 2003

PART – B (5 x 2= 10Marks)

11. Define global warming.
12. What do you mean by LEED.
13. Define the term green house effect.
14. Where can you adopt the green building concept?
15. What are the main causes for the green house gas emission?

PART – C (2x 15= 30 Marks)

16. (a) Briefly explain the concepts of green building with its merits and demerits. (15)
- Or
- (b) Explain in detail about the effects of global warming. (15)
17. (a) Explain the various materials that are being used for the construction of green buildings. (15)
- Or
- (b) Briefly explain the changes that caused in the earth due to the effects of global warming. (15)