

Reg. No. :

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Question Paper Code: 58161

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

- India's largest LEED gold-rated Core & Shell green building is situated in
(a) Mumbai (b) New Delhi (c) Chennai (d) Trivandrum
- LEED certified level for a building with silver point ranges from
(a) 23-28 (b) 33-38 (c) 43-48 (d) 53-58
- The expansion of ECBC is
(a) Energy Consumption Building Code
(b) Energy Conservation Building Code
(c) Energy Conservation Building Committee
(d) Energy Consumption Building Committee
- The most common green house gas present in the atmosphere is
(a) CO₂ (b) CH₄ (c) CFC (d) HFC
- 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
- Which of the following is the natural impact for the cause of global warming?
(a) volcanoes (b) CO₂ (c) CH₄ (d) NO₂

7. The expansion of IGBC is
 - (a) Indian Green Building Council
 - (b) International Green Building Council
 - (c) Indian Green Building Committee
 - (d) International Green Building Committee
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. List some of the effects of global warming.
12. What are the materials used for construction of green buildings?
13. What do you mean by sustainability?
14. Where can you adopt the green building concept?
15. How can you define green building?

PART – C (2x 15= 30 Marks)

16. (a) (i) Explain in detail about the green buildings and the materials used in green buildings. (8)
- (ii) Explain the various sources of global warming (7)
- Or
- (b) (i) Explain the remedial measures that are to be taken for the effects of global warming. (10)
- (ii) What are the green house gases? Mention the sources of the green house gases (5)
17. (a) As a human being what are the remedial measures that you are going to Practice to avoid the effects of global warming? (15)
- Or
- (b) Briefly explain the changes that caused in the earth due to the effects of global warming. (15)