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Question Paper Code: 98161

B.E. / B.Tech. DEGREE EXAMINATION, NOV 2022

One credit

Civil Engineering

19UCE861 - Green Building Concept

(Regulations 2019)

(Common to all Branches)

Duration: 1.30 Hours

Maximum: 50 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

1. For a gold LEED certification, how many points are required? CO2- U
(a) 40-49 (b) 60-79 (c) 50-59 (d) 80-110
2. Which of the below green building in India has received a platinum LEED certification? CO1-U
(a) Dabur India, Chandigarh (b) Logix Cyber Park, UP
(c) Unitech Commercial Tower, Chandigarh (d) Suzlon One Earth, Pune
3. LEED gives rating in form CO1-U
(a) Platinum (b) Gold (c) Silver (d) All the above
4. GRIHA has been prepared by CO1-U
(a) USGBC (b) TERI (c) LEED (d) By own self
5. When GRIHA was launched in India? CO1-U
(a) 2001 (b) 2008 (c) 2010 (d) 2011
6. Sustainable building material is CO1-U
(a) Green Building (b) Environmental building
(c) Both a & b (d) None of the above

7. Which of the following is not a measure for a green building? CO2-U
- (a) Use B-rated elements that save energy
- (b) Install solar panels for lighting or heating water
- (c) Install water meters in a building
- (d) None of the above
8. What is the full form of IGBC? CO1- R
- (a) Indian Green Building Control
- (b) Indian Green Building Council
- (c) International Green Building Control
- (d) International Green Building Council
9. Which rating star is given by GRIHA for points between 71-80? CO2- U
- (a) 5 (b) 4 (c) 3 (d) 2
10. How many points are Minimum to earn in order to Achieve LEED Certifications you need? CO2- U
- (a) 35 (b) 40 (c) 55 (d) 45
- PART – B (5 x 2= 10 Marks)
11. Discuss SHGC CO1- U
12. Explain Concentrating solar power (CSP) CO2- U
13. Define U-value or What is Heat Transfer co-efficient? CO2- U
14. What is PMV? CO2- U
15. Define Biomass. CO1- U
- PART – C (2 x 15= 30 Marks)
16. (a) Compare the Conventional building and green buildings. CO4- Ana (15)
- Or
- (b) Illustrate Green Building Roofing System suitable for India. CO3- App (15)
17. (a) What are the green house gases? Mention the sources of green house gases CO5- Eva (15)
- Or
- (b) Explain in detail about the green buildings and materials used in green buildings. CO4- Ana (15)