

- Q.18 Discuss about Resilience Building Measure. (CO3)
- Q.19 Describe the suitable material for sustainable construction & Renovation. (CO4)
- Q.20 Write down the principles of sustainable design. (CO4)
- Q.21 What do you meant by regulatory requirement? (CO4)
- Q.22 Discuss about Energy-Efficient Building. (CO2)

#### **SECTION-D**

**Note:** Long answer type questions. Attempt any two questions out of three questions. (2x8=16)

- Q.23 Write short note on (CO4)
- a) Environmental justice
  - b) Social equity consideration
- Q.24 Explain the sustainable development goals. (CO1)
- Q.25 Describe the carbon emission reduction strategies. (CO3)

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#### **5th Sem / Civil Engineering Subject :Sustainable Development**

Time : 3 Hrs. M.M. : 60

#### **SECTION-A**

**Note:** Multiple choice questions. All questions are compulsory (6x1=6)

- Q.1 What is professional ethics? (CO4)
- a) A set of legal rules
  - b) Ethical guidelines for a specific profession
  - c) Personal moral beliefs
  - d) Government regulations
- Q.2 Carbon footprint can be measured by : (CO2)
- a) Carbon dating
  - b) Instruments
  - c) Carbon accounting
  - d) Formula
- Q.3 What year did the concept of sustainability first appear? (CO1)
- a) 1992
  - b) 1978
  - c) 1980
  - d) 1987

- Q.4** Where was the sustainable development explained for first time (CO1)
- World Development Report
  - Brundtland Commission Report
  - Human development Report
  - None of the above
- Q.5** What is primary goal of green building in real estate. (CO2)
- Maximizing construction cost
  - Prioritizing non-renewable resources
  - Ignoring energy efficiency
  - Minimizing environmental impact
- Q.6** LEED means (CO4)
- Leadership in energy and environmental document
  - Leadership in energy and environmental design
  - Leadership in energy and efficiency document
  - Leadership in energy and efficiency design

## **SECTION-B**

**Note:** Objective/ Completion type questions. All questions are compulsory. (6x1=6)

- Q.7** Sustainable building material are \_\_\_\_\_ materials. (CO2)
- Q.8** Expand CMMs. (CO4)
- Q.9** Which house hold waste has an excellent recycling potential?
- Q.10** EIA was introduced in India in \_\_\_\_\_.
- Q.11** Decomposition of Domestic waste under natural processes is known as \_\_\_\_\_. (CO2)
- Q.12** Full form of SDGs. (CO1)

## **SECTION-C**

**Note:** Short answer type questions. Attempt any eight questions out of ten questions. (8x4=32)

- Q.13** Discuss one case study on ethical dilemma. (CO4)
- Q.14** How do you identify ethical consideration? (CO4)
- Q.15** Define Waste Management? Enlist the name of various system of Waste Management. (CO2)
- Q.16** What are the Mitigation Strategies? (CO3)
- Q.17** Explain in detail Sustainability Assessment Tools. (CO4)