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Roll No.

220756A

5th Sem.
Branch : 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 Which of the following options is not included in the sustainable development parameters? (CO1)
- a) Gender inequality and diversity
 - b) Inter generational and intra generational equity
 - c) Growing annually
 - d) None of the above
- Q.2 The process of converting wet waste to manure is called: (CO3)
- a) Incineration
 - b) Conservation
 - c) Metabolism
 - d) Composting
- Q.3 Which of the following is not a typical ethical dilemma in the medical profession? (CO4)
- a) Deciding which insurance to accept
 - b) Allocating limited resources
 - c) Balancing patient privacy and Public safety
 - d) Choosing between conflicting treatment options

(1)

220756A

- Q.4 The solid waste from hospital is classified as : (CO3)
- a) Hazardous
 - b) Non-hazardous
 - c) Compostable
 - d) Combustible
- Q.5 The Sustainable development Goals comprises of how many goals and targets? (CO1)
- a) 17 Goals and 132 Targets
 - b) 17 Goals and 169 Targets
 - c) 15 Goals and 122 Targets
 - d) None of the above
- Q.6 How many rating systems for green building certification are available in India? (CO2)
- a) 2
 - b) 3
 - c) 4
 - d) 8

Section-B

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

- Q.7 Sustainable building material can be made from _____. (CO2)
- Q.8 Define ethical dilemma? (CO4)
- Q.9 A _____ building material can be made into new product again and again. (CO2)

(2)

220756A

- Q.10 Write three P's" of triple Bottom Line approaches. (CO1)
- Q.11 Define regulatory framework. (CO4)
- Q.12 SD is defined is _____. (CO1)

Section-C

Note: Short answer type Question. Attempt any eight questions out of Ten Questions. (8x4=32)

- Q.13 Why are ethical consideration is important. (CO4)
- Q.14 Explain in detail Sustainability Assessment Tools. (CO4)
- Q.15 What is the Tripple Bottom line approch. (CO1)
- Q.16 Explain the methods of Sustainable Water Managements. (CO1)
- Q.17 Give four examples of community engagement?(CO4)
- Q.18 How does climate change affect the Civil Engineering Infrastructure? (CO2)
- Q.19 What are the Sustainable mobility strategy and their impact? (CO4)
- Q.20 Write down the four principles of solid waste management. (CO3)
- Q.21 What is the difference between climate change mitigation and adaptation? (CO3)
- Q.22 How can EIA be used to measure environmental impact? (CO1)

Section-D

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

- Q.23 a) Write down the fundamental principles of Green building design. (CO2)
- b) What is the sustainable site planning? (CO1)
- Q.24 What is life cycle assessment (LCA)? Explain the phases of a life cycle assessment. (CO4)
- Q25 Describe the different international policies framed for sustainable development. (CO1)