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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

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)

(1)

220756A

(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 Triple Bottom line approach. (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)