1. Define sustainability.
2. What’s meant by sustainable construction.
3. List the elements of sustainability.
4. Is sustainability a transition process, and how?
5. Give two benefits of sustainable construction.
6. What sustainability considerations need to be taken into account.
7. Describe sustainable design.
8. Less environmentally destructive site development. How?
9. What can the construction industry do?
10. Write the three parameters of a Buildings “Strategy.
11. What is meant by advanced technologies?
12. Explain the energy efficient t materials.
13. List the construction alternatives.
14. Describe the objective of a green building.
15. What is LEED.
16. Why LEED is a point-based system.
17. Sketch an example of natural ventilation.
18. Draw a Photovoltaic Roof Systems.
19. Show the cross-sectional view of a light shelf.
20. Plot the cycles of materials.
21. Explain the role of the civil engineer in sustainable development:
22. Give examples of Civil Engineering Skills.
23. Describe the first Principles of Sustainable Development.
24. Explain briefly how Civil engineers can contribute solutions to sustainable development.
25. What is meant by sustainable development?
26. List four Guiding Principles of Engineering for Sustainable Development.
27. Plot a flow chart of engineering design process.
28. Describe three characteristics of good sustainable building.
29. List the five concrete basics for sustainability.
30. How the functionality of a building is improved.
31. Is it possible to ensure longevity of a structure?
32. How do you enhance occupant factors in a building?
33. Why reducing the use of resources is important?
34. What is the most widely used construction material in the world?
35. Show Cement manufacturing process graphically.
36. Is it possible for concrete delivers a triple bottom line solution, how?
37. Show in a table the advantages and disadvantages of concrete.
38. What do understand by Life cycle assessment.
39. Show the components of concrete graphically.
40. How can a designer use concrete to integrate all of the 3-Rs?
41. What is reduce (give two points).
42. Explain reuse (give two points).
43. Describe recycle (give two points).
44. Write the qualities that make concrete an easy choice as a compatible material.
45. Describe the Concrete’s role in sustainability regarding stormwater management.
46. Compare between salvage and recycle.
47. Define Green Technology.
48. List the benefits of development and explain three of them.
49. Discuss the green technology.
50. Give the goals of green technology and explain two of them.
51. Discuss the Renewing Energy.
52. Write the major types of green technology.
53. What is Green Industry.
54. Sketch a figure showing the reduction parameters of Green Industry.
55. How to reduce impact of building to environment.
56. Benefits of green buildings.
57. Write the reasons for the Need of Green IT.
58. Explain ways to Implement Green IT.
59. Discuss the advantages of Green IT (information technology).
60. give the reasons for the Need of Green Energy.
61. Advantages of Green Energy.
62. What is LEED.
63. How LEED® certification works.
64. How LEED® certification is awarded.
65. explain LEED® version 4.
66. The difference between LEED® version 3 and 4.
67. Show LEED rating system graphically.
68. Plot steeps to LEED certification.
69. Give the steeps of LEED certification and explain two of them.
70. Discuss the Minimum Requirements for LEED Certification.
71. Sketch a flow-chart showing LEED credit categories.
72. What is meant by sustainable sites.
73. Explain water efficiency.
74. What’s energy and atmosphere.
75. Discuss material resources using suitable sketch.
76. Explain indoor environmental quality.
77. Significance of innovation and design.
78. What Benefits Can You Obtain Through a LEED Certification.
79. write five additional Benefits of being LEED Certified.
80. What is a sustainable or green road.