**SRM Institute of Science and Technology**

**College of Engineering and Technology**

**Ramapuram, Chennai**

**IMPORTANT QUESTIONS FOR PHILOSOPHY OF ENGINEERING**

1. The feedback in the engineering design process is,
2. Application performance monitoring
3. Recovery and planning
4. User experience
5. None of the above
6. Main constraint for the engineering design is,
7. Variables
8. **Customer requirements**
9. Prototype
10. Analyze result
11. Which of the following is the engineering code of ethics,
12. **Hold paramount the safety, health, and welfare of the public**
13. Application of science is engineering
14. Rules of practive is essential in science
15. Axiology is the advantage version of an application
16. The two types of Evaluation in ADDIE model are,
17. Quality and Quantitative
18. **Formative and Summative**
19. Impact and outcome
20. Program and performance
21. Professional organization for Engineers provides,
22. Scientific method
23. Engineering design
24. Unit testing
25. **Connect engineers of the community**
26. The working model of the engineering design is known as,
27. Model
28. **Prototype**
29. Display
30. Proposal
31. ADDIE model stands for,
32. Attention, Develop, Design, Implement, Evaluate
33. Analyse, Define, Design, Implement, Evolve
34. **Analysis, Design, Develop, Implement, Evaluate**
35. Apply, Define, Develop, inculcate, Examine
36. What is the last operational factor in a system design?
37. Integrity and Consistency
38. Development strategy
39. Recovery and planning
40. **Application Performance Monitoring**
41. What are the two types of Engineers code of ethics?
42. **Fundamental canons and rules of practice**
43. Laws and practices
44. Fundamental rules and regulations
45. Objectives and statements
46. What are the 3E in sustainability?
47. Economy, Environment, Exhaust
48. **Environmental, Ethical, Economical**
49. Evolve, Explain, Engineering
50. Evolve, Evaluate, Educate
51. The third step of scientific method,
52. **Formulate hypothesis**
53. Specify requirements
54. Do Research
55. Test and redesign
56. CDIO stands for,
57. Convert, Design, Imitate, Operate
58. Conceive, Destruct, Implement, omit
59. **Conceive, Design, Implement, Operate**
60. None of the above
61. What is Axiology?
62. Study of terms
63. **Study of value**
64. Study of operation
65. Study of knowledge
66. What is sustainability?
67. Meeting the ability of future generation with compromising the need of present
68. **Meeting the need of present without compromising on the ability of future generations**.
69. Meeting the ability of past with compromising the need for present generation.
70. None of the above
71. One of the role of engineers to achieve sustainable developments is,
72. Professional aspect
73. Engineering design
74. **Reduce waste production**
75. Formulate hypothesis

**PART-B**

1. Differentiate between scientific method and Engineering design with examples.
2. Explain ADDIE model with example.
3. Expand and Explain CDIO engineers in industry.
4. State the operational factors for system design.
5. What is Axiology?
6. State the engineering areas and explain its axiological implications.
7. Define the engineering design process with diagram.
8. Explain Engineers code of ethics and state its classifications.
9. What is the advantage of Professional organization for Engineers?
10. Mention any three professional organizations for engineers.

**PART – C**

1. Explain scientific method and engineering design with flow chart.
2. Explain ADDIE model with flow charts and relevant case studies.
3. Explain CDIO Engineers for industries with flow charts and relevant case studies.
4. Explain Engineering Design Process with case study and diagram.
5. Define Axiology? Mention the axiological context of engineering applications.
6. Explain Engineering code of ethics in detail.
7. Explain sustainability and diversity in engineering and explain engineer’s role to achieve sustainable development.