



SIDDHIKSHA EDUCATION CARE 2024-25

SCIENCE - 10

53. a) What is ultrasonic vibration? b) State any two uses of ultrasonic vibration.
54. State Soddy and Fajan's displacement law.
55. How can you determine the age of the fossils?
56. Describe mutation breeding with an example.
57. What is the pH of 1.0×10^{-5} molar solution of KOH?
58. Differentiate soap and detergents.
59. How does pH play an important role in everyday life?
60. What are the effects of hybrid vigour in animals?
61. Natural Selection is a driving force for evolution - How?
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11. A) What is nuclear reactor? B) Explain its essential parts with their functions.
12. A) What is called homologous series? Give any of three its characteristics. B) Name the simplest Ketone and give its structural formula.
13. Suggest measures to overcome the problems of an alcoholic.
14. A) Define Ethnobotany. B) How do you differentiate homologous organs from analogous organs.
15. Natural selection is a driving force of evolution - How?
16. A) What are transgenic organisms? B) With a neat labeled diagram explain the techniques involved in Gene cloning.
17. Explain the factors influencing the rate of a reaction.
18. A) Compare the properties of alpha, beta and gamma radiations. B) Which isotope is used to cure Anemia?