BIOLOGY

BIODIVERSITY AND ITS CONSERVATION

41. 'Z' in the expression of 'species-area relationship' represents
    (1) Species richness
    (2) Area climate
    (3) Regression coefficient
    (4) Y-intercept

42. During analysis of species-area relationship among very large areas, the curve will be
    (1) much steeper
    (2) values of the range 0.6 to 1.2
    (3) values of the range 0.1 to 0.2
    (4) Both (1) and (2)

43. Rectangular hyperbolic curve of 'species-area relationship' can be mathematically expressed as
    (1) $S = CA^z$
    (2) $S = CA^2$
    (3) $\log S = \log C + Z \log A$
    (4) $\log S = \log C - Z \log A$

44. Ecologists have discovered that the value of Z generally in the range of
    (1) 1.0 to 2.0 (2) 0.1 to 0.2
    (3) 0.6 to 1.2 (4) 1.2 to 0.6

45. Regression coefficient can be mathematically described as
    (1) Y-intercept
    (2) Species richness
    (3) Slope of the line
    (4) Area

46. 'Biodiversity' is the term popularized by
    (1) David Tilman
    (2) Paul Ehrlich
    (3) Edward Wilson
    (4) Alexander von Humboldt

47. Combined diversity at all the levels of biological organization is termed as
    (1) Biosphere
    (2) Species diversity
    (3) Biodiversity
    (4) Biome

48. Select the option which exemplifies genetic diversity.
    (1) Amphibian species diversity in two different ghats of India
    (2) Different strains of rice
    (3) Variety of *Rauwolfia serpentina*
    (4) Both (1) and (3)

49. Which among the following regions has the highest biodiversity in the world?
    (1) Western ghats of India
    (2) Coral reefs of Australia
    (3) Saharan desert
    (4) Amazonian rain forest

50. Norway is a
    (1) Asian country
    (2) Tropical country near equator
    (3) Scandinavian country
    (4) South American country