

ALL BIOLOGY ESSAYS QSNS

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BIOLOGY ESSAY

1. Define Biology (3mks)
2. Motor vehicles move, use energy and produce carbon dioxide and water. Similar characteristics occur in living organisms yet motor vehicles are not classified as living. List the other characteristics of living things that do NOT occur in motor vehicles. (10mks)
3. List and explain the branches of Biology. (10mks)
4. Describe the cell structures as seen under electron microscope. (20mks)

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- a. Plant
 - b. Animal
-
- 5. Differentiate using a diagram the cells under electron microscope. (10mks)
 - 6. Describe the heart functions. (20mks)
 - 7. Draw and explain various ways by which a typical cell is adapted to its function. (20mks)
 - 8. Describe how the mammalian body protects itself against diseases and pathogens. (20mks)
 - 9. How are leaves of higher plants adapted to their functions? (10mks)
 - 10. Draw and explain how mammalian teeth are adapted to their function. (20mks)
 - 11. Describe what happens to beans and maize meal from ingestion to egestion. (20mks)
 - 12. How are the small intestines adapted to their functions? (20mks)
 - 13. Outline and explain the various homeostatic functions of the liver. (10mks)
 - 14. Explain the stages of photosynthesis showing the main products in each stage (20mks)
 - 15. Explain how endotherms respond to heat and cold in their environment. (10mks)

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16. Describe the route taken by soil from uptake by the roots to the evaporating areas of the leaves. (20mks)
17. Describe the adaptations of the mammalian heart to its function? (20mks)
18. Describe double circulation in mammals. (20mks)
19. Describe process of urine formation in mammalian kidneys. (20mks)
20. Explain the uses of various hormones in homeostasis in mammals. (10mks)
21. Distinguish between diabetes mellitus and insipidus. (7mks)
22. Explain how the various abiotic factors may affect the plant.(10mks)
23. Discuss cause effect and control measures of water pollution. (20mks)
24. How are xerophytes and hydrophytes adapted to their functions? (20mks)
25. Outline difference between wind and insect pollinated flower. (20mks)
26. Describe what happens to the flower from pollination to seed and fruit development. (20mks)

27. Describe the adaptations of the female reproductive system in Humans. (20mks)
28. Describe process of gaseous exchange in terrestrial plants. (10mks)
29. How is the mammalian gaseous exchange system adapted to its functions? (10mks)
30. Describe the structure and function of the mammalian skin. (20mks)
31. Describe the roles of hormones in the menstrual cycle. (10mks)

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32. Discuss mechanism of opening and closing of the stomata. (20mks)
33. Write an essay on Natural Selection. (20mks)
34. Discuss Lamarck and Darwin theory of evolution. (20mks)
35. Explain how blood cells are adapted to their functions. (15mks)
36. Discuss the process of blood clotting. (20mks)
37. Why is locomotion necessary in higher animals? (10mks)
38. Describe how the backbone vertebrae are adapted to their functions. (15mks)
39. Describe how various supportive tissues in plants adapt them to their habitats. (20mks)
40. What is a reflex action? (1mk)
41. Describe the Nitrogen Cycle. (20mks)
42. Describe the various tropism in plants and how they aid plant in survival. (10mks)
43. Discuss evidence of organic evolution. (10mks)
44. Describe the structure and functions of the mammalian ear. (15mks)
45. Discuss ways employed by preys to avoid predation (10mks)
46. What is symbiosis? (1mk)
47. Discuss the adaptation of Schistosoma spp to their parasitic mode of life. (7mks)
48. Describe the process of mitosis. (20mks)

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49. Discuss mechanisms that hinder self-pollination and fertilization. (20mks)
50. How are seeds and fruits adapted to their mode of dispersion? (15mks)
51. Distinguish between mutation, mutant and mutagen. (6mks)
52. How is mammalian eye adapted to its function?
53. Discuss roles of hormones in plant growth and development. (10mks)
54. Explain how the process of evolution may result to new species. (10mks)
55. Discuss how anaerobic respiration is used in the industries and homes. (10mks)
56. Explain the factors that affect enzyme activity. (7mks)
57. Discuss the adaptations of the male reproductive system in Humans. (15mks)
58. State the economic importance of monera and fungi. (20mks)
59. Discuss the adaptation of the nervous system to its functions. (10mks)
60. Discuss composition and the functions of the mammalian blood. (15mks)
61. Differentiate between Dicot and Monocot Stems. (15mks)
62. How is the root hair adapted to its functions. (15mks)

63. Describe defects of the eye and how they may be corrected. (15mks)
64. Discuss accommodation of the eye. (10mks)
65. Discuss the human nervous system. (20mks)
66. Describe the functions of the brain. (20mks)

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67. What is genetics? (1mk)
68. Explain how an albino male can obtain a normal baby. (20mks)
69. Explain the process of pregnancy from fertilization to delivery. (20mks)
70. Discuss the process of menstruation. (20mks)

71. Explain the history of the microscope. (20mks)
72. Explain the history of classification. (20mks)
73. Distinguish between klinefelter and turner syndrome. (6mks)
74. Describe the process of meiosis. (20mks)
75. Differentiate meiosis and mitosis. (7mks)
76. Explain the mendel procedure. (10mks)
77. Discuss the consequences of chromosomal mutation. (10mks)
78. State any genetically inherited disorders in humans. (10mks)
79. Discuss chemical evolution. (10mks)

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