Generated Biology Question Paper

Time:2:00 hours
Total Marks:240

Ques.1 : What is the outermost layer of the skin called? -(02marks)

Ques.2 : What is the function of the ribcage in the human body? -(02marks)

Ques.3 : Name the process by which living organisms produce offspring of the same kind. -(02marks)

Ques.4 : Which organelle is known as the 'powerhouse' of the cell? -(02marks)

Ques.5 : Which part of the plant anchors it in the soil and absorbs water and nutrients? -(02marks)

Ques.6 : Name the process by which sunlight is converted into chemical energy by plants. -(02marks)

Ques.7 : What is the function of the circulatory system in the human body? -(02marks)

Ques.8 : Name the green pigment responsible for photosynthesis in plants. -(02marks)

Ques.9 : Which part of the plant stores excess food? -(02marks)

Ques.10 : What is the purpose of mucus in the respiratory system? -(02marks)

Ques.11 : What is the function of the endocrine system in the human body? -(02marks)

Ques.12 : What is the function of the skeletal system? -(02marks)

Ques.13 : What is the basic function of the respiratory system? -(02marks)

Ques.14 : Which part of the plant is responsible for reproduction? -(02marks)

Ques.15 : Which organ is involved in the digestion and absorption of nutrients? -(02marks)

Ques.16 : What is the purpose of white blood cells in the immune system? -

(02marks)

Ques.17 : What is the basic unit of life? -(02marks)

Ques.18 : What is the purpose of red blood cells in the circulatory system? -(02marks)

Ques.19 : What is the main function of chloroplasts in plant cells? -(02marks)

Ques.20 : What is the main function of the nervous system? -(02marks)

Ques.21 : Explain the process of energy transfer in ecosystems -(05marks)

Ques.22 : Describe the different types of symbiotic relationships in ecology -(05marks)

Ques.23 : Discuss the role of mutualism in ecological interactions -(05marks)

Ques.24 : Explain the process of DNA replication -(05marks)

Ques.25 : Discuss the impact of antibiotics on bacterial cells -(05marks)

Ques.26 : Explain the process of blood clotting in the human body -(05marks)

Ques.27 : Describe the structure and function of the Golgi apparatus -(05marks)

Ques.28 : Discuss the role of biodiversity in drug discovery -(05marks)

Ques.29 : Discuss the adaptations of desert plants to their environment -(05marks)

Ques.30 : Discuss the impact of climate change on ecosystems -(05marks)

Ques.31 : Explain the concept of homeostasis in living organisms -(05marks)

Ques.32 : Describe the structure and function of the nephron in the kidney -(05marks)

Ques.33 : Explain the process of genetic engineering and its applications -(05marks)

Ques.34 : Discuss the structure and function of the nervous system -(05marks)

Ques.35 : Explain the process of cellular respiration -(05marks)

Ques.36 : Describe the structure and function of the mitochondria -(05marks)

Ques.37 : Explain the process of protein synthesis in a cell -(05marks)

Ques.38 : Describe the structure and function of the endoplasmic reticulum -(05marks)

Ques.39 : Discuss the impact of human activities on biodiversity -(05marks)

Ques.40 : Discuss the role of hormones in the endocrine system -(05marks)

Ques.41 : Explain the principles of CRISPR-based gene therapy -(10marks)

Ques.42 : Discuss the molecular mechanisms of circadian rhythm regulation -(10marks)

Ques.43 : Explain the process of in vitro fertilization (IVF) and its ethical considerations -(10marks)

Ques.44 : Explain the principles of optogenetics and its applications in neuroscience -(10marks)

Ques.45 : Discuss the molecular basis of autoimmune diseases -(10marks)

Ques.46 : Discuss the molecular mechanisms of circadian rhythm regulation -(10marks)

Ques.47 : Discuss the molecular basis of prion diseases -(10marks)

Ques.48 : Discuss the molecular basis of prion diseases -(10marks)

Ques.49 : Discuss the principles of epigenetics and their impact on gene expression -(10marks)

Ques.50 : Explain the role of non-coding RNAs in cellular processes -(10marks)