



SNS COLLEGE OF TECHNOLOGY

(An Autonomous Institution)

Approved by AICTE, New Delhi, Affiliated to Anna University, Chennai

Accredited by NAAC-UGC with 'A++' Grade (Cycle III) &

Accredited by NBA (B.E - CSE, EEE, ECE, Mech & B.Tech.IT)

COIMBATORE-641 035, TAMIL NADU



19GET277 – Biology for Engineers

UNIT 2 – Biodiversity

Question Bank

2 marks

1. What is photosynthesis, and why is it essential for plant growth?
2. Define nitrogen fixation and name two types of organisms that perform it.
3. How do stomata function in the process of photosynthesis?
4. Differentiate between autotrophs and heterotrophs.
5. What role do chloroplasts play in photosynthesis?
6. Explain the function of the digestive system in animals.
7. What are alveoli, and what is their function in the respiratory system?
8. Describe the role of the heart in the circulatory system.
9. How do kidneys contribute to the excretory system?
10. Name two types of microbes and their basic characteristics.
11. What is the economic importance of yeast in the food industry?
12. How do viruses differ from bacteria in structure and function?
13. Explain the term "antibiotic resistance" in microbes.
14. What are the main products of photosynthesis?
15. Describe the relationship between legumes and nitrogen-fixing bacteria.
16. How does the diaphragm aid in breathing?
17. What is the function of hemoglobin in the blood?
18. Name two methods used to control microbial growth.
19. Describe the role of nitrogenase enzyme in nitrogen fixation.
20. What is aerobic respiration in animals?

16 Marks

1. Discuss the process of photosynthesis in detail, including the light-dependent and light-independent reactions.
2. Explain how this process contributes to plant growth and nutrition.
3. Explain the nitrogen cycle, focusing on the role of nitrogen fixation in agriculture and how it affects plant growth and soil health.
4. Describe the structure and function human digestive system, outlining the structure and function of each organ involved in digestion and absorption.
5. Provide a detailed explanation of the human respiratory system and Examine the structure and function of the circulatory system to maintain homeostasis.
6. Describe the structure and function of the kidneys, and discuss how this system helps regulate the body's internal environment.



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7. Explain the classification, structure, and function of Microbes and highlighting their significance in different ecosystems.
8. Evaluate the economic importance of microbes in various industries, discuss how microbial control is essential for these industries.
9. Explain the interdependence between the digestive, respiratory, circulatory, and excretory systems in maintaining overall body function and health.
10. Analyze the impact of microbial infections on human health, detailing the mechanisms of infection, the body's immune response, and the development of antibiotic resistance.