

- 1) What is Binomial Nomenclature? Write its importance. 2
- 2) Differentiate between protista and monera. 2
- 3) What is meant by biogenesis? 2
- 4) How can protozoal infections be prevented and treated? 2
- 5) Write the scope and application of microbiology. 2
- 6) Write the general character of microorganism. Name two nitrogen-fixing bacteria. 1+1
- 7) What are antibiotics? 2
- 8) State Koch's postulate. 2

(2)

**Group B**

**Answer any FOUR questions of the following:** **4x5 = 20**

- 1) What is microbiome? Write down the importance of microbiomes in human health. 2+3
- 2) Write down applications of algae in agriculture, industry, and food. 2+2+1
- 3) Briefly describe the mode of reproduction of fungi. 5
- 4) Why 'kala azar' is so named? Write down the relation between melanin and leishmaniasis. How could protozoa obtain their food? 3+2
- 5) What are stoneworts and diatomaceous earth? Classify the algae according to their pigments. 2+3
- 6) Write briefly on the contribution of Edward Jenner and Louis Pasteur. 2½ + 2½

**Group C**

**Answer any ONE question of the following:** **1x10 = 10**

- 1) Write the Carl Woese's three kingdom classification systems and their utility. Differentiate between prokaryotic and eukaryotic microorganisms. What are the differences between algae and fungi? 4+4+2

(3)

- 2) Write down the limitation (s) of three kingdom concept of life. Write briefly on the cell wall structure of bacteria. What is the medical importance of plasmodium? 2+5+3

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