

GOVT. AUTONOMOUS COLLEGE. ROURKELA
UG IST YEAR (Core Paper - 1) - BOTANY
QUESTION BANK

Long Question :-

- What do you mean by microbial nutrition? Briefly write about the nutrients required for growth of micro-organisms?
- Discuss about microbial growth & control?
- Describe the structure & multiplication of TMV?
- Give a brief account of the economic importance of viruses?
- Give an account of transduction & conjugation in Bacteria.
- Write down general characteristics of algae.
- Write down thallus organization in algae.
- Write down ecology & distribution of algae.
- Write the life history of Chlamydomonas.
- Write down general characteristic of charophytes?
- Write down Phaeophyta features and relationship?
- Write down main characteristics of xanthophyte?

Short question :-

- What are the different classes of virus?
- Which group of viruses has a DNA genome that replicates through an RNA intermediate?
- Prions and viroid
- Bacteriophage
- Culture media
- Importance of cyanobacteria
- Give some examples of –
 - I. RNA virus
 - II. SS DNA virus
 - III. SS DS DNA virus
 - IV. DS RNA virus
- Who is called father of virology?
- Why antibiotics have no effect on viruses?
- Genetic material of TMV
- Endospore
- Transformation in bacteria.

- Heterocyst in Cyanophyceae
- Role of bacteria in Biotechnology?
- Write a short note on sex-duction?
- How do you classify Algae?
- Differentiate between Bryophyta and Pteridophytes.
- Sex organs in Polysiphonia?
- Tetrasporophyte of Polysiphonia?

FILL IN THE BLANKS :-

- _____ bacteria lack a cell wall and are therefore resistant to penicillin?
- A cluster of polar Flagella is called _____.
- Flagella move the cell by _____.
- The cell wall of bacteria made by _____.
- Largest know bacteria is _____.
- Common cold caused by _____ type of microbe?
- Flagella move the cell by _____.
- The cocci which mostly occur in single or pairs are _____.
- Penicillin was discovered by _____ scientist?
- The xanthophyte walls are typically of _____.