

TEST PAPER: BIOLOGY

Time: 45 Minutes

Class: ICSE 9

Max. Marks: 30 Marks

Date: 19th Sept 2018

Marking Scheme: All questions carry 10 marks each. Subparts (A) and (B) carry 3 marks each and subpart (C) carries 4 marks.

Question 1:

1. Define.

1. Vaccination.
2. Toxoids.
3. Antibiotic.

B. Describe.

1. Reproduction in bacteria.
2. Nitrifying bacteria.
3. Spore formation.

C. Answer the following.

1. Explain how bacteria move about.
2. What are bioweapons?
3. Explain the preservative methods- A. Irradiation and B. Dehydration/how yeast helps in making bread.

Question 2.

A. Differentiate

1. Pasteurization & sterilization.
2. Toxoids & Antitoxins.
3. Serum & Vaccine.

B. Write in detail about yeast regarding:

1. Occurrence.
2. Structure.
3. Nutrition.

4. Give different types of bacteria according to their shape & also explain the difference between mono, diplo, strepto & staphylo cocci bacteria.

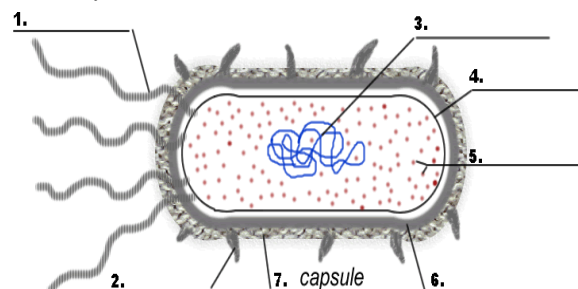
Question 3.

A. 1. Name the following.

1. Slimy protective layer outside the cell wall of bacteria.
2. A spherical body mass of bacteria with hard & thick outer cover that can withstand harsh climatic conditions.
3. The substance that makes up the bacterial cell wall instead of cellulose.
4. First hormone produced by bacterial culture.
5. Process of soil replenishing with nitrates to increase fertility.
6. Common bread mould.

B. Answer.

1. Label 1, 2, 3, 4, 5 & 6 in the diagram.
2. Is '4' fully permeable?
3. How respiration occurs in this organism?



C. Name the first antibiotic discovered & the organism from which it is prepared. Who discovered it? Name any three other antibiotics & mention the diseases treated by using those.