



Shree H.N.Shukla College of Science Rajkot
B.Sc. (Sem- 1) (CBCS)
MICROBIOLOGY: [101]
Unit test Paper-2019

[Time: 1:00 Hour]

[Total Marks: 30]

Q 1.

(A) Short answer Question 1 mark each , 5 questions

1. Define: Microbiology. 2. Define: Biogenesis. 3. Define Phycology & Mycology
4. Describe the contribution of Antony Van Leeuwenhoek in field of microbiology.
5. Who proved that, only DNA is transforming material from generation to generation?

(B) Answer in brief 2 marks each, any one , 2 questions

1. Describe the Bergey's manual of systematic bacteriology.
2. Give difference between prokaryotes and eukaryotes.

(C) Write Short Note on. 3 marks each, any one , 2 questions

1. Write a note on occurrence and distribution of microbes in nature.
2. Write a note on five kingdom classification.

(D) Write in detail. 5 marks each, any one , 2 questions

1. Write a detail note on spontaneous generation.
2. Write a note on applied areas of microbiology.

Q 2.

(A) Short answer Question 1 mark each , 5 questions

1. Define Microscopy and Microscope. 2. Define Resolution and Limit of resolution
3. Give any 2 example of fluorescent dye. 4. Define: Mordents, give any 2 example of it.
5. Write any 3 advantage of fixation..

(B) Answer in brief 2 marks each, any one , 2 questions

1. Give difference between SEM and TEM
2. Write an application of bright field, dark field, phase contrast and fluorescent microscopy.

(C) Write Short Note on. 3 marks each, any one , 2 questions

1. Write a note on Fluorescent Microscopy.
2. Write a note on Confocal microscopy.

(D) Write in detail. 5 marks each, any one , 2 questions

1. Describe any 3 light microscopy technique with diagram.
2. Write a note on stain, mordents, fixative and decolorizer.