

Pranukh Swami Science & H.D. Patel Arts College, Kadi  
Bachelor of Vocation Pharmaceutical Chemistry Semester- IV

Internal Examination, March-2019,  
(PC-412) Microbiology

Time: 2 hours 26/03/2019 Total Marks: 60

Que-1. Answer any 12 questions. Each question carries 1 mark. [12]

1. Define Probiotics.
2. What is Soya source?
3. Full form of SEM & TEM.
4. Draw the structure of Dettol.
5. Heat killing is enhanced by acidic pH. (True/False)
6. What is the role of Phenol in microbiology study?
7. Which kind of radioactive material is used in sterilization by radiation method?
8. Find the correct one size from following  
(a) Hair = 50 – 70  $\mu\text{m}$  (b) Pollen = 30-50  $\mu\text{m}$   
(c) Dust = 10  $\mu\text{m}$  (d) All of above
9. If the chromosome ion is the positive ion the stain is classified as basic & vice versa is called as acidic. (True/False)
10. Give two examples of Chemo-heterotrophs?
11. What is Tincture of iodine?
12. What is Red halophile?
13. Define Microbiology.

Que-2. Answer any five questions. Each question carries 4marks. [20]

1. Explain in brief about spirochetes.
2. Define disinfection. Short note on Antiseptic & Disinfectant.
3. Enlist the various factors influencing disinfectant action.
4. Short note on Electron Microscope with diagram.
5. Short note on Actinomyces & Rickettsia.

6. Short note on Validation.

Que-3. Answer any four questions. Each question carries 7 marks. [28]

1. Explain the Moist heat sterilization.
2. Give a detail note on Acidic & Basic Stain.
3. Give detail note on various type of micro-organism.
4. Give a brief note on role of micro-organism in Following Food products: - A  
Butter & Cheese  
B) Vinegar & Bread
5. Short note on Kelsey - Sykes test.