

P. P. SAVANI UNIVERSITY

First Semester of B.Sc. Nursing Examination

September-2019

SSNR1030 - Microbiology

Time: 09:00 a.m. to 12:00 noon

27.09.2019, Friday

Maximum Marks: 75

Instructions:

1. The question paper comprises of two sections.
2. Section A and B must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.

Section: A (Marks-38)

Q:1 Long Essay. (Any One) (13)

1.
 - a) Explain the size and arrangement of Bacterial Cells. 6
 - b) Give Difference between Prokaryotes Vs Eukaryotes. 7
2.
 - a) Explain in detail Whittaker's Five Kingdom Concept. 6
 - b) Explain in detail Gram's Staining. 7

Q:2 Short Essay. (Any Three) (15)

1. What is Microbiology? Explain in detail various groups of Microorganisms.
2. What are the various applied areas of Microbiology?
3. What is Motility? Explain Hanging Drop Technique.
4. Explain Chlorine and its compounds as disinfectants.
5. What are the characteristics of chemotherapeutic agents?

Q:3 Answer the Following (Any Five) (10)

1. What are Bacteria?
2. What is Disinfection?
3. What are the various sources of infection?
4. What do you mean by hospital acquired infection?
5. What are antibiotics?
6. Name any 4 antibiotics.

Section-B (Marks-37)

Q:4 Long Essay. (Any One) (12)

1.
 - a) Define Sterilization. 3
 - b) Discuss in detail the different methods of dry heat sterilization. 9
2.
 - a) Define and classify immunity. 5
 - b) Write a difference between active and passive immunity. 7

Q:5 Short Essay. (Any Three) (15)

1. Explain the life cycle and laboratory diagnosis of *P. falciparum*.
2. Brief on the health hazards from bio waste and write the management of bio waste.
3. Write about Coomb's test.
4. Describe Immunization schedule.
5. Laboratory diagnosis of tuberculosis.

Q:6 Answer the Following (Any Five) (10)

1. Name two fungi causing infection of skin.
2. Write two purposes of immunization.
3. Mention two applications of ELISA.
4. Name two viruses causing diarrhea.
5. What is the use of autoclave?
6. What is cold chain?