

**BACHELOR OF SCIENCE (NURSING) (2019 COURSE)**  
**F. Y. B. Sc. (Nursing) :SUMMER- 2022**  
**SUBJECT : MICROBIOLOGY**

Day : Monday  
Date : 6/6/2022

**S-22425-2022**

Time : 10:00 AM-01:00 PM  
Max. Marks : 75

**N.B.**

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answers to both the sections should be written in **SEPARATE** answer book.

**SECTION – I**

**Q.1** Write short notes on **ANY FIVE** of the following: **(10)**

- a) Treatment & prevention of clostridium tetani.
- b) Laboratory diagnosis of UTI
- c) Ziehl – Neelsen stain
- d) Personal hygiene
- e) VDRL Test
- f) Mantoux Test (Tuberculin Test)
- g) Polio Vaccine

**Q.2** Write Short Answer Questions on **ANY FOUR** of the following: **(16)**

- a) Immunity
- b) Structure of Flagella
- c) HIV
- d) Sources of infection
- e) Role of Nurse in infection control
- f) Life cycle for E. Histolica

**Q.3** Long Answer Questions on **ANY ONE** of the following: **(12)**

- a) Define vaccine. Explain types of vaccine and cold chain equipment necessary for storage and transportation.
- b) Define the term fever explain in detail about plasmodium Falciparum and describe the laboratory diagnosis of malaria.

**SECTION - II**

**Q.4** Write short notes on **ANY FIVE** of the following: **(10)**

- a) Standard Safety Measures
- b) Autoclave
- c) Principle of Microbiology
- d) Agglutination test with two examples
- e) Disinfection
- f) Chocolate Agar
- g) List of capsulated Bacteria

**Q.5** Write Short Answer Questions on **ANY FOUR** of the following: **(16)**

- a) Widal Test
- b) Classification of cultural media
- c) Cell wall of bacteria
- d) Bacterial Growth Curve
- e) Immunoglobulin M
- f) Acid fast staining

**Q.6** Long Answer Questions on **ANY ONE** of the following: **(11)**

- a) Define Nosocomial infection, Discuss the source of infection and common agents of nosocomial infection and preventive measure of nosocomial infection.
- b) Define sterilization, Describe in details physical and chemical methods of sterilization.

F.Y.B.Sc. NURSING (2019 COURSE) : **SUMMER - 2021**  
SUBJECT : MICROBIOLOGY

Day : **Friday**  
Date : **11-06-2021**

Time : **10:00AM TO 1:00**  
Max. Marks : **75** P.M.

**S-2021-22425**

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Answer to both the sections should be written in **SEPARATE** answerbook.

**SECTION - I**

**Q.1** Write short notes on **ANY FIVE** of the following : (2X5) (10)

- a) Define base with two examples.
- b) Principles of Microbiology
- c) Colonization
- d) Portal entry
- e) Name any two diseases caused by viruses.
- f) Mode of transmission of Covid 19.

**Q.2** Write short answers on **ANY FOUR** of the following: (4X4) (16)

- a) Role of Nurse in Infection control
- b) Covishield vaccine
- c) Characteristics of Retrovirus
- d) Prevention of Hospital acquired infection.
- e) Prevention of cross infections in HIV.
- f) Growth and Nutrition of Blood

**Q.3** Write **ANY ONE** of the following: (6X2) (12)

- a) Difference between Prokaryotes and Eukaryotes.
- b) Write note on Recombinant DNA.

**OR**

- a) Standard safety measures in hospital
- b) Sources of infection in hospital

**SECTION - II**

**Q.4** Write short notes on **ANY FIVE** of the following : (2X5) (10)

- a) Cold chain
- b) Mycoplasma
- c) General features of Antigen Antibody Reactions.
- d) Gram positive and gram negative Bacilli
- e) Classifications of Bacilli
- f) List the factors effecting on Individual Immunity

**Q.5** Write short answers on **ANY FOUR** of the following: (4X4) (16)

- a) Mode of transmission of Infections
- b) Difference between Primary and Secondary Immune response
- c) Immunization schedule
- d) Difference between active passive Immunity
- e) Role of Nurse in Prevention of Mycosis
- f) Types of Cocci

**Q.6** Write long answer on **ANY ONE** of the following: (1X11) (11)

- a) Define Immunity, types of Immunity and brief about different vaccines.
- b) Define Hypersensitivity reaction, skin test carried out for Hypersensitivity reaction.

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F. Y.B.SC. (NURSING) 2019 COURSE): SUMMER-2020  
SUBJECT: MICROBIOLOGY

Day : Monday  
Date : 07-12-2020

S-2020-22425

Time 9:00 AM TO 12:00 NOON.  
Max.Marks:75

N.B.

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Answer to both the section should be written in **SEPARATE** answer books.

**SECTION-I**

**Q.1** Write a short notes on **ANY FIVE** of the following: **(2X5)=10**

- a) List down the various disinfectant solutions used in hospital
- b) Define serological reaction
- c) Any two uses of Nutrient Agar
- d) Define Base with two examples
- e) Name any four diseases caused by Viruses
- f) Draw a structure of a Bacterial flagellum and label the parts

**Q.2** Write a short answers on **ANY FOUR** of the following: **(4X4)=16**

- a) Explain the four methods of Sterilization.
- b) Characteristics and life cycle of Retrovirus
- c) Definition and Patient education of Hospital Acquired Infection
- d) Enumerate the symptoms and Laboratory Diagnosis of Leprosy
- e) Role of Nurse in Infection control.
- f) Purpose and Procedure of Blood smear.

**Q.3** Long answer question **ANY ONE** of the following: **(12X1)=12**

- a) Write down the principles of chemotherapy. Add a note on the problems of drug resistance in bacteria.
- b) Difference between Prokaryotes and Eukaryotes. Write a note on Recombinant DNA.

**SECTION-II**

**Q.4** Write a short notes on **ANY FIVE** of the following: **(2X5)=10**

- a) Contribution of Louis Pasteur in Microbiology
- b) Define Moist Heat Sterilization
- c) Five main ingredients of Culture Media
- d) Name any four Gram Negative Bacteria
- e) Function of Capsule
- f) Function of Immunoglobulin G
- g) Define Colonization in Microbiology

**Q.5** Write a short answers on **ANY FOUR** of the following: **(4X4)=16**

- a) With one example explain Selective Media
- b) Reproduction of Bacteria
- c) Difference between Exotoxins and Endotoxins
- d) Principle and types of ELISA techniques
- e) Laboratory diagnosis and prophylaxis of Rabies

**Q.6** Long answer question **ANY ONE** of the following: **(1X11)=11**

- a) Explain the causes, symptoms and diagnosis of Malaria. Explain about Malarial Vaccine.
- b) With the help of a labeled diagram describe a typical cell and enumerate its constituents.