

VINAYAKA MISSION'S RESEARCH FOUNDATIONS, SALEM
(Deemed to be University)

B. Sc (TRAUMA CARE MANAGEMENT) DEGREE
EXAMINATION – August 2019

APPLIED BASIC SCIENCES - II
(PHARMACOLOGY, PATHOLOGY, COMMUNITY
MEDICINE, MICROBIOLOGY)

Time: Three hours

Maximum: 130 marks

SECTION - A

PHARMACOLOGY

- I. Write an essay on any **ONE** of the following: (1 x 20 = 20)
1. Mechanism of action, pharmacokinetics, adverse effects and uses of loop diuretics
 2. Stages and mechanism of action of general anesthetic advantages and disadvantages of nitrous oxide.
- II. Write short notes on any **Two** of the following: (2 x 10 = 20)
3. Classification and action of antihistamines
 4. Sulfonamides
 5. Dopamine

SECTION - B

PATHOLOGY

- I. Write an essay on any **ONE** of the following: (1 x 20 = 20)
1. Describe in detail the process and steps involved in wound healing in the skin.
 2. What is pneumonia? Classify according to the organism. Describe in detail the aetiology and morphology of lobar pneumonia.
- II. Write short notes on any **ONE** of the following: (1 x 10 = 10)
3. Define atherosclerosis. Describe its morphology and mechanism of development.
 4. Define necrosis. List the types of necrosis. Describe the morphological features of necrosis.

SECTION - C

COMMUNITY MEDICINE

- I. Write an essay on any **ONE** of the following: (1 x 20 = 20)
1. Enumerate the methods of health communication and its advantages and disadvantages.
 2. Source of infection, agent factors, host factors, risk factors, clinical features and management of tuberculosis.
- II. Write short notes on any **ONE** of the following: (1 x 10 = 10)
3. Describe Nosocomial infection and Iatrogenic disease
 4. Detail note on Measles

SECTION - D
MICROBIOLOGY

I. Write an essay on any **ONE** of the following: (1 x 20 = 20)

1. Classification of infection. Methods of transmission of infection
2. Acquired on adaptive immunity and its types

II. Write short notes on any **ONE** of the following: (1 x 10 = 10)

3. General features and measurement of antigen and antibody
4. Anaphylaxis

(Sl.No. M21140)