

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

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

First Year

APPLIED BASIC SCIENCES - I
ANATOMY, PHYSIOLOGY, BIOCHEMISTRY

Time: Three hours

Maximum: 130 marks

(Use Separate Answer book for each section)

SECTION - A

ANATOMY

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

1. Enumerate the parts of the skeletal muscle. Describe the name and location of the skeletal muscles of the body. Add a note on sternocleidomastoid muscle.
2. Describe in detail about organs of respiration. Explain about upper airway structure and its function.

II. Write short notes on any **Two** of the following: (2 x 10 = 20)

3. Definition, types of joints with examples and mention the movements of joints of the body.
4. Name of organs of digestive system. Add a note on liver.
5. Explain about triangles of neck and carpal tunnel.

SECTION - B

PHYSIOLOGY

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

1. Draw labeled diagram of heart. Discuss about conduction system of heart.
2. Discuss about hormones secreted by Endocrine glands. Discuss about Adrenal glands.

(p.t.o)

II. Write short notes on any **Two** of the following: (2 x 10 = 20)

3. Define Glomerular filtration rate (GFR). Mention its normal value. Discuss the factors affecting GFR.
4. Describe the neuromuscular junction and events in the neuromuscular transmission.
5. Classify blood groups. Explain coagulation cascade.

SECTION - C

BIOCHEMISTRY

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

1. Classification of Vitamins. Add a note on biochemical functions of vitamins.
2. Explain in detail about properties of fatty acids and their biological significance.

II. Write short notes on **THREE** of the following: (3 x 10 = 30)

3. Functions of Minerals, Sources of calcium.
4. Brief account on Urea Cycle.
5. Definition and enzymes of clinical importance.

(Sl.No.M21685)