

Sl.No.M19253

Course Code:2780111

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

**B. Sc (TRAUMA CARE MANAGEMENT) DEGREE
EXAMINATION – March 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. Describe the shape, size, location, and coverings, external and internal features of heart. Add a note on its blood supply.
2. Enumerate the parts of male reproductive system. Describe the features of scrotum, testis, epididymis, vas deferens, seminal vesicle and ejaculatory duct.

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

3. Describe the features of lower respiratory tract.
4. Detail note on conduction system of heart.
5. Functions of 12 pairs of cranial nerves.

**SECTION - B
PHYSIOLOGY**

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

1. Draw labelled diagram of nephron. Discuss the physiology of urine formation and functions of kidney.
2. Describe synthesis, storage, transport and function of thyroid.

(p.t.o)

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

3. Define erythropoiesis. Describe the stages and factors influencing erythropoiesis. Add a note on anaemia.
4. (i) Differentiate sympathetic and parasympathetic nervous system
(ii) Write functions of hypothalamus and medulla oblongata.
5. (i) Classify tissues. Write a note on nervous tissue.
(ii) Write a note on mitochondria.

SECTION - C
BIOCHEMISTRY

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

1. Define and classify enzymes. Explain the factors that affect the rate of enzyme catalyzed reactions.
2. Give an account of Tri Carboxylic Acid (TCA) cycle. Add a note on its regulation and energetic.

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

3. Describe the process of Glycogen metabolism.
4. (i) Essential amino acids
(ii) Lipoproteins and types
5. (i) α – oxidation of fatty acids.
(ii) Photophosphorylation.

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