

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

**B. Sc (TRAUMA CARE MANAGEMENT) DEGREE**  
**EXAMINATION – August 2018**

**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. Classify joints citing examples. Give an account of the features of synovial joint and synchondrosis joints.
  2. Describe the uterus under the following heads:  
a) Situation            b) Normal position            c) Parts            d) Relations  
e) Blood supply            f) Supports            g) Applied anatomy
- II. Write short notes on any **Two** of the following: (2 x 10 = 20)
3. (a) Types of muscles  
(b) Deltoid muscle – origin, insertion, nerve supply, action, applied anatomy.
  4. Circle of Willis – formation, area of supply and applied anatomy.
  5. Tongue – Parts, surfaces, muscles, nerve supply and features.

**SECTION - B**

**PHYSIOLOGY**

- I. Write an essay on any **ONE** of the following: (1 x 20 = 20)
1. Classify the nervous system and write in detail about the functional areas of brain.
  2. Draw and label diagram of cross section of eyeball. Write a note on physiology of vision.
- II. Write short notes on any **Two** of the following: (2 x 10 = 20)
3. Explain physiology of muscle contraction.

4. Explain digestion of food in stomach and intestine.
5. Discuss salivary glands and its function.

### **SECTION - C**

### **BIOCHEMISTRY**

- I. Write an essay on any **ONE** of the following: (1 x 20 = 20)
1. Classify sources and biochemical functions of vitamins.
  2. How is regulation of glycolysis achieved? Explain in detail.
- II. Write short notes on any **THREE** of the following: (3 x 10 = 30)
3. a) Compare the structure of sucrose and lactose  
b) Polysaccharides biological importance.
  4. Renal function test.
  5. Sources, daily requirement and functions of iron.
  6. Phospholipids.

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