

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

**B.Sc. (NURSING) DEGREE EXAMINATION – August 2019
First Year**

ANATOMY AND PHYSIOLOGY

Time: Three hours

Maximum: 75 marks

Answer Part A and Part B in separate Answer Book

PART – A

ANATOMY Maximum: 37 marks

SECTION – A

I. Answer **All** Questions. Each answer in one or two sentences: (7 x 1 = 7)

1. Mention the terminal branches of brachial artery.
2. Give two examples of a hinge joint.
3. Name the organs of respiration.
4. Name the layers of skin.
5. Mention the parts of the pancreases.
6. Mention any two connective tissue cells.
7. Name any two sesamoid bones.

SECTION – B

II. Write Short Notes on any **THREE** of the following: (3 x 5 = 15)

8. Explain the ventricles of the brain.
9. Structural differences between skeletal, smooth and cardiac muscle.
10. Fallopian tube.
11. Draw and labeled diagram of eye ball.
12. Urinary bladder – parts, surfaces, ligaments.

SECTION – C

III. Answer any **Two** of the following: (2 x 7 ½=15)

13. Enumerate the parts of respiratory system and write in detail about the lung.
14. Describe the mammary gland under the following heading. i) Structure ii) Blood supply iii) Lymphatic drainage iv) Applied anatomy
15. Name the types of circulation. Describe in detail about coronary circulation.
16. Describe the classification of joints. Explain the synovial joint in detail.

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PART – B

PHYSIOLOGY

Maximum: 38 marks

SECTION – A

I. Answer **All** Questions. Each answer in one or two sentences: (8 x 1 = 8)

1. List two important function of WBC.
2. What are the vitamin K dependent clotting factors?
3. Mention four lung volumes.
4. List any two gastro intestinal hormones.
5. Mention any two functions of skin.
6. List the contraceptive measures in a female.
7. What is normal RBC value?
8. Name any four primary tastes.

SECTION – B

II. Write short notes on any **THREE** of the following: (3 x 5 = 15)

9. ECG.
10. Spermatogenesis.
11. Reflex arc.
12. Composition and functions of cerebrospinal fluid.
13. Gas exchange in lungs.

SECTION – C

III. Answer any **TWO** of the following: (2 x 7 ½ = 15)

14. Different stages of erythropoiesis.
15. Digestion in stomach.
16. Functions of saliva.
17. Define immunity. How do you classify immunity?

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