

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

**B.Sc. (NURSING) DEGREE EXAMINATION – August 2018
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. Name the coverings of the Brain.
2. Name the structure present in the Hilum of the liver.
3. What is Pleuritis?
4. Write any three types of Epithelium with example.
5. What is the Hormone secreted by thyroid gland?
6. Name the vein used for intra muscular injection.
7. Write any three content of spermatic cord.

SECTION – B

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

8. Interior of the heart.
9. Brachial artery.
10. Structure of the eyeball with labeled diagrams.
11. Detold muscle – origin, insertion, action, blood supply, applied anatomy.
12. Fallopian tubes – structure, parts, blood supply, nerve supply and applied anatomy.

SECTION – C

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

13. Name the sense organs. Write in detail about “Tongue”.
14. Explain in detail functional area of the cerebrum.
15. Mention the excretory organs. Explain “Kidney” in detail.
16. Thyroid gland – location, structure, relation, blood supply, nerve supply and applied anatomy.

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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. Name the leads of ECG.
2. Mention the function of Nephrons.
3. Define plasma protein.
4. Name the any four hormones secreted by pituitary gland.
5. Define sarcomere.
6. Mention the function of liver.
7. Define the surfactant.
8. Define glomerular filtration rate.

SECTION – B

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

9. Describe the functions of placenta.
10. Mention the physiological factors affecting blood pressure.
11. Digestion in stomach.
12. Micturition.
13. Refractive errors of eye.

SECTION – C

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

14. Write in detail the mechanism of urine formation.
15. Discuss in detail in different stages of erythropoiesis and the factors necessary for erythropoiesis.
16. Define blood pressure. What is the normal value of blood pressure? Mention the various factors which influence blood pressure.
17. Explain menstrual cycle. Add a note on female contraceptive device.
