

Sl.No. M21005

Course Code : 161021T03

**VINAYAKA MISSION'S RESEARCH FOUNDATION, SALEM**

**MBBS DEGREE EXAMINATION – February 2019**

**First Year**

**HUMAN PHYSIOLOGY INCLUDING BIOPHYSICS - PAPER I**

**SECTION A**

**Time: Fifteen Minutes**

**Maximum: 15 marks**

**Register Number :**

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**Signature of the candidate**

**Signature of the Invigilator**

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**Instructions to the candidates**

- 1. Write your Register Number and sign at the place specified on the first page of this Question Booklet.**
- 2. Do not open this question booklet until Invigilator announces the commencement of the examination.**
- 3. Answer ALL the Fifteen questions. They carry equal marks. No negative marking for wrong answers.**
- 4. Answers should be marked legibly in the SHEET provided in capital letters.**
- 5. THE QUESTION BOOKLET SHOULD NOT BE TAKEN OUT OF THE EXAMINATION HALL.**
- 6. Questions should not be copied and taken out of the Examination Hall. Any one found violating this rule shall not be permitted to write the examination and shall be sent out of the Hall.**
- 7. At the end of 15 minutes, when the Invigilator announces 'STOP WRITING' you must stop writing immediately. If the candidate tries to attempt to answer the questions after the prescribed time, their answer script becomes invalid.**
- 8. Hand over the questions booklet containing answer sheet to the invigilator when you finish answering or immediately after 15 minutes.**

**HUMAN PHYSIOLOGY INCLUDING BIO PHYSICS - PAPER I**  
**SECTION-A (15X1-15 MARKS)**  
(Multiple choice questions)

Time: Fifteen Minutes

Maximum: 15 marks

Select the most appropriate answer and answer in the answer sheet attached:

1. ESR helps in
  - A. Diagnosis of a disease
  - B. Prognosis of a disease
  - C. Erythropoiesis
  - D. Leucopoiesis
2. HIV virus destroys
  - A. Cytotoxic "T" lymphocytes
  - B. Memory "T" lymphocytes
  - C. Helper "T" lymphocytes
  - D. Suppressor "T" lymphocytes
3. Hereditary spherocytosis causes
  - A. Haemorrhagic anaemia
  - B. Haemolytic anaemia
  - C. Aplastic anaemia
  - D. Nutritional deficiency anaemia
4. Decrease in platelet count causes
  - A. Purpura
  - B. Haemophilia
  - C. Christmas disease
  - D. Haemophilia c
5. For the synthesis of thyroxine
  - A. Calcium is required
  - B. Phosphorus is required
  - C. Iodine is required
  - D. Magnesium is required
6. Conn's syndrome occurs due to
  - A. Hyper secretion of thyroxine
  - B. Decreased secretion of aldosterone
  - C. Increased secretion of aldosterone
  - D. Increased secretion of parathormone
7. Hypersecretion of growth hormone in adults causes
  - A. Gigantism
  - B. Grave's disease
  - C. Acromegaly
  - D. Tetany

8. Glucocorticoids causes
  - A. Increasing allergic reactions
  - B. Decreases allergic reactions
  - C. Decreases neutrophils
  - D. Increases immunity
9. Reduction in chromosomes takes place in
  - A. Mitosis
  - B. Thrombosis
  - C. Meiosis
  - D. Erythropoiesis
10. Synthesis of proteins takes place in
  - A. Mitochondria
  - B. Lysosomes
  - C. Ribosomes
  - D. Golgiapparatus
11. CCK- Pz Produces pancreatic juice rich in
  - A. Bicarbonates
  - B. Enzymes
  - C. Acids
  - D. Phosphates
12. Kupffer cells are present in
  - A. Bone marrow
  - B. Lymphnodes
  - C. Spleen
  - D. Liver
13. HCL is produced in the stomach by
  - A. Mucous cell
  - B. Goblet cells
  - C. Parietal cells
  - D. Chief cells
14. Hormone responsible for ovulation is
  - A. Luteinizing hormone
  - B. Oestrogen
  - C. Progesterone
  - D. Follicle stimulating hormone
15. Normal spermatic count ranges from
  - A. 1000 to 2000 /ml of semen
  - B. 1 million to 2 millions/ml of semen
  - C. 1lakh to 2 lakhs /ml of semen
  - D. 100 millions to 120 millions /ml of semen

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**First Year**

**HUMAN PHYSIOLOGY INCLUDING BIO PHYSICS – PAPER I**

Time : Three hours

Maximum : 80 marks

Answer ALL Questions

Answer Section A in the Answer Sheet attached to it 15 marks – 15 minutes to be handed over to the invigilator immediately after 15 minutes

Answer Section B in the same answer book

Time : 2 hours 45 minutes

**SECTION – B**

Maximum : 65 marks

**I. Write essays on:**

**(2 x 15=30)**

1. With the help of a neat diagram describe the mechanism of transmission of nerve impulse across the neuromuscular junction. Add a note on myasthenia gravis?

**(3+8+4=15)**

2. Describe the mechanism of concentration of urine?

**II. Write short notes on:**

**(5 x 5=25)**

3. Erythroblastosis foetalis

4. Strength duration curve

5. Gastric emptying

6. Immunological test for pregnancy

7. Cretinism

**III. Write briefly on:**

**(5x2=10)**

8. Secondary active transport

9. Functions of bile salts

10. Enteric nervous system

11. Mechanism of action of oral contraceptives

12. Four functions of sertoli cells

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