

Sl.No. M2337

Course Code : 161021T03

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

**MBBS DEGREE EXAMINATION – June 2021  
First Year**

**HUMAN PHYSIOLOGY - PAPER I**

**SECTION A**

**Time: Fifteen Minutes**

**Maximum: 15 marks**

**Register Number :**

--	--	--	--	--	--	--	--	--	--

**Signature of the candidate**

**Signature of the Invigilator**

-----

**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 - 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. The type of haemoglobin present in the fetal red blood cells is called

- A. Hb F
- B. Hb A
- C. Hb S
- D. G Hb

2. In the menstrual cycle, ovulation is triggered by the surge of the hormone

- A. Estrogen
- B. Progesterone
- C. Luteinizing hormone
- D. Follicle stimulating hormone

3. The normal sperm count is about

- A. 1 million/ml
- B. 10 million/ml
- C. 100 million/ml
- D. 1000 million/ml

4. Between the 3<sup>rd</sup> to 5<sup>th</sup> month of intrauterine life, erythropoiesis occurs mainly in the

- A. Yolk sac
- B. Liver
- C. Spleen
- D. Bone marrow

5. The daily salivary secretion in our body is

- A. 1-1.5 Lit
- B. 2-3 Lit
- C. 4-5 Lit
- D. 6-7 Lit

6. In the GIT, Migrating Myoelectric Complex are movements which develop in the
- A. Esophagus
  - B. Stomach
  - C. Small intestine
  - D. Large intestine
7. The pH of the pancreatic juice is about
- A. 1.5
  - B. 3
  - C. 6
  - D. 8
8. In the peripheral blood , 60-70% of the WBC's are
- A. Lymphocytes
  - B. Neutrophils
  - C. Monocytes
  - D. Eosinophils
9. All the following are examples of negative feedback mechanism except
- A. Regulation of blood glucose
  - B. Regulation of blood pressure
  - C. Regulation of thyroid hormone
  - D. Parturition
10. The osmotic strength of human plasma is
- A. 290 milliosmoles/lit
  - B. 600 milliosmoles/lit
  - C. 900 milliosmoles/lit
  - D. 1200 milliosmoles/lit
11. In our body, about 80% of the colloidal oncotic pressure is due to the plasma protein
- A. Fibrinogen
  - B. Globulin
  - C. Albumin
  - D. Haptoglobin

-- (3) --

12. The plasma calcium concentration in our body is

- A. 2-4 mg/100ml
- B. 9-11 mg/100ml
- C. 16-19mg/100ml
- D. 21-24 mg/100ml

13. The hormone having anti inflammatory, anti allergic and immunosuppressive effect is

- A. Calcitonin
- B. Parathyroid hormone
- C. Cortisol
- D. Aldosterone

14. All the following are actions of thyroid hormone except

- A. Increased oxygen consumption
- B. Decreased basal metabolic rate
- C. Increased myelination of nerve fibres
- D. Increased blood glucose level

15. Antidiuretic hormone acts on the nephron and helps in conserving water by causing its reabsorption in the

- A. Proximal convoluted tubule
- B. Ascending limb of Henle's loop
- C. Descending limb of Henle's loop
- D. Collecting duct

\*\*\*\*\*

(Sl.No. M2337)

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

**MBBS DEGREE EXAMINATION – June 2021  
First Year**

**HUMAN PHYSIOLOGY – 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. Describe the innervation of bladder and explain the micturition reflex with the help of diagram. Add a note on cystometrogram. (5+6+4)
2. Discuss the regulation and functions of growth hormone. Give the cause and features of Acromegaly. (3+7+5)

**II. Short notes on :**

**(5 x 5 = 25)**

3. Sliding filament theory
4. Passive transport
5. Endometrial changes during menstruation
6. Intrinsic pathway of coagulation
7. Phases of pancreatic secretion.

**III. Answer briefly on :**

**(5 x 2 = 10)**

8. Heemostasis
9. Functions of testosterone
10. Mass movement
11. Tests for ovulation
12. Gastric mucosal barrier.

\*\*\*\*\*