

**End Semester/Reappear (Semester II) Examination July 2022**

**Programme: B. Pharm**

**Full Marks: 75**

**Subject: Human Anatomy and Physiology II**

**Time: 3 Hrs**

**Subject Code: BP201T**

**Enrollment No: \_\_\_\_\_**

**Section I**

**1. Objective type questions. Answer all questions. 20 x 1 = 20**

- i. Nervous system is made up of specialized cells known as
  - a) Neurons
  - b) Nephrons
  - c) Bronchioles
  - d) Cardiomyocyte
- ii. The number of pairs of cranial nerves present in human body is
  - a) 11
  - b) 12
  - c) 13
  - d) 14
- iii. Sympathetic postganglionic fibres release
  - a) Acetylcholine
  - b) Nitric oxide
  - c) Norepinephrine
  - d) None
- iv. The enzyme responsible for digestion of starch in the mouth is
  - a) Lipase
  - b) Lysozyme
  - c) Protease
  - d) Amylase
- v. pH of gastric acid is
  - a) 1.2
  - b) 1.0
  - c) 7.0
  - d) 7.2
- vi. Pancreas contain..... glands that produce enzymes important to digestion
  - a) Endocrine
  - b) Exocrine
  - c) Both a and b
  - d) None
- vii. There are .....number of lungs in human body
  - a) 1
  - b) 4
  - c) 2
  - d) 3
- viii. The pulmonary artery carries ..... blood from the right ventricle to the lungs
  - a) Oxygenated
  - b) Deoxygenated
  - c) Both
  - d) None
- ix. The exchange of gases (O<sub>2</sub> and CO<sub>2</sub>) occurring between atmosphere and body cells is called
  - a) Respiration
  - b) Digestion
  - c) Excretion
  - d) Conduction
- x. One of these is not a function of the kidney
  - a) Helps in the formation of urine
  - b) Helps in conducting impulses
  - c) Maintains blood pressure
  - d) Regulates electrolyte balance
- xi. The posterior lobe of pituitary gland secretes
  - a) Prolactin
  - b) Insulin
  - c) Vasopressin
  - d) Melatonin

- xii. The tube which connects the urinary bladder and kidneys is called  
 a) Urethra                      b) Fallopian tubes                      c) Trachea                      d) Ureter
- xiii. An inflammatory condition of the kidney's filtering units is called  
 a) Glomerulonephritis                      b) Diabetes                      c) Neuropathy                      d) Pancreatitis
- xiv. A small, butterfly-shaped gland situated at the base of the front of your neck is called  
 a) Hypothalamus                      b) Thyroid                      c) Adrenals                      d) Ovary
- xv. The outer region and also the largest part of an adrenal gland is called  
 a) Adrenal medulla                      b) Adrenal pleura                      c) Adrenal cortex                      d) None
- xvi. The gland in the lymphatic system that makes and trains special white blood cells is  
 a) Pineal                      b) Testes                      c) Parathyroid                      d) Thymus
- xvii. Process of fusion of spermatozoa with the ovum is called  
 a) Fertilization                      b) Ovulation                      c) Spermatogenesis                      d) Menstruation
- xviii. Each cell in the human body has .....pairs of chromosomes  
 a) 12                      b) 23                      c) 46                      d) 21
- xix. Full form of DNA is  
 a) Duoribo nucleic acid                      b) Ribonucleic acid  
 c) Deoxyribo nucleic acid                      d) Diribo nucleic acid
- xx. Protein made out of a chain of amino acids is called a  
 a) Mono peptide                      b) Di-peptide                      c) Tri-peptide                      d) Polypeptide

## Section II

- 2. Short Answer type questions. Answer any five** **5 x 7 = 35**
- a. Differentiate between hormones and enzymes.
  - b. Define digestion. Give the functions of the stomach.
  - c. Describe glomerular filtration in short.
  - d. Which gland is called the master gland? Why?
  - e. Write a note on CSF. Give its functions.
  - f. Discuss any three abnormal constituents of urine. Give their significance.
  - g. What is the function of ATP and why is it important?

## Section III

- Long Answer type questions. Answer any two.** **2 x 10 = 20**
3. Sketch and label a diagram of digestive system. Give main functions of the digestive system.
  4. With a neat and well labeled diagram of lungs, explain the process of respiration.
  5. Differentiate between the sympathetic and parasympathetic nervous system. Give the functions of each of the systems.

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