



**BRAINWARE UNIVERSITY**  
**Term End Examination 2019 – 20**

Programme – Diploma in Pharmacy  
 Course Name – Human Anatomy & Physiology

Course Code –1.5T

(D. Pharm first year final)

**Time allotted: 3 Hours**

**Full Marks: 80**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

**Group –A**

(Multiple Choice Type Question)

20 x 1 = 20

1. *Choose the correct alternative from the following*
  - (i) What is reabsorbed through loop of Henle?
 

a. Glucose	b. CO <sub>2</sub>
c. Potassium	d. water
  - (ii) Which part of human brain is concerned with the regulation of body temperature?
 

a. cerebellum	b. hypothalamus
c. Scapula	d. Mandible
  - (iii) Which of the following is flexible connective tissue that is attached to bones at the joints?
 

a. Adipose	b. Cartilage
c. Epithelial	d. Muscle
  - (iv) The term cell was coined by
 

a. Schwann	b. Robert Hooke
c. De Bary	d. Tatum
  - (v) In a normal human being number of chromosomes is
 

a. 23	b. 46
c. 53	d. 26

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- (vi) Golgi apparatus is concerned with:
- a. Detoxification mechanism
  - b. Secretions
  - c. Synthesis of hormones
  - d. None of the above
- (vii) Rhythmicity is a property of :
- a. Nervous tissue
  - b. Voluntary muscle
  - c. Cardiac muscle
  - d. Globular Cell
- (viii) Ciliated epithelium is present in:
- a. Alimentary canal
  - b. Bronchioles
  - c. Anal canal
  - d. None of the above
- (ix) The term "Suicidal bags" is used for:
- a. Lysosomes
  - b. Peroxisomes
  - c. Mitochondria
  - d. Ribosomes
- (x) Name the outer most boundary of cell:
- a. Plasma membrane
  - b. Cytoplasm
  - c. Nuclear membrane
  - d. None of the above
- (xi) A very important organelle which is also called power house of cell is
- a. mitochondria
  - b. Mucous membranes
  - c. Golgi complex
  - d. nucleus
- (xii) Bile is produced by
- a. Liver
  - b. Gall bladder
  - c. Pancreas
  - d. Kidney
- (xiii) The reserve pack maker is :
- a. AV node
  - b. SA node
  - c. Bundle of His
  - d. None of the above
- (xiv) Which of the following is the Glomerular Filtration Rate of a nephron?
- a. 125ml/day
  - b. 180ml/day
  - c. 125L/day
  - d. 125ml/min
- (xv) Addison's disease is related to:
- a. Thyroid gland
  - b. Parathyroid gland
  - c. Adrenal gland
  - d. Thymus gland

- (xvi) The adrenal gland is situated in :
- On upper pole of Kidney
  - Neck
  - Present in brain
  - None of the above
- (xvii) Which of the following is the master gland of the endocrine system?
- Adrenal
  - Pancreas
  - Pituitary
  - Thyroid
- (xviii) Fertilization of an ovum by a spermatozoon occurs in which of the following structures?
- Fallopian tube
  - Ovary
  - Vagina
  - Uterus
- (xix) Number of autosomes in human primary spermatocyte is \_\_\_\_\_
- 46
  - 44
  - 23
  - 22
- (xx) Diabetes mellitus occurs due to the deficiency of:
- Insulin
  - Thyroid
  - Glucagon
  - Parotid

**Group – B**

(Short Answer Type Questions)

8 x 5 = 40

Answer any *eight* from the following

- Differentiate between EEG and ECG. 5
- What are the functions performed by lymphatic system? 5
- Mention the composition of urine. 5
- Write down the functions of Gall bladder. 5
- Write a note on ABO system of blood grouping. 5
- Give the function of nervous system. 5
- Define vital capacity and expiratory reserve volume of lung. 5
- Write a short note on Endoplasmic reticulum. 5
- Differentiate between megaloblastic and sickle cell anemia. 5

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11. Describe disorders of thyroid function. 5

### Group – C

(Long Answer Type Questions)

2 x 10 = 20

Answer any *two* from the following

12. Give an account of the composition and function of blood. 10
13. (a) What is nephron? 2  
(b) Explain the stages of urine formation. 8
14. Describe the mechanism of blood coagulation. 10
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