

Total No. of printed pages = 4

BP 201T

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Girijananda Chowdhury University
Hatkhowapara, Azara, Ghy-17

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2023

B.Pharm. 2nd Semester End-Term Examination

HUMAN ANATOMY AND PHYSIOLOGY — II

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks
for the questions.

1. Multiple choice questions (Answer all questions) : (20 × 1 = 20)
- (i) Duodenum has characteristic Brunner's gland which secrete two hormones called
- (a) Kinase, estrogen (b) Secretin, cholecystokinin
- (c) Prolactin, parathormone (d) Estradiol, progesterone
- (ii) All of the following are hormones of the anterior pituitary Except
- (a) GH (b) FSH
- (c) PTH (d) TSH
- (iii) The total number of alveoli present in the human lungs is estimated to be around?
- (a) 1 billion (b) 800 million
- (c) 500 million (d) 1500 million
- (iv) The chemical transmitter of nerve impulses is
- (a) Cholinesterase (b) Acetyl CoA
- (c) Acetylcholine (d) Adrenaline

[Turn over

- (v) Which of these structures has no cartilage in it?
- (a) Epiglottis (b) Trachea
(c) Bronchi (d) Alveoli
- (vi) The _____ are the types of neuroglial cells that provide myelin in the central nervous system.
- (a) astrocytes (b) oligodendrocytes
(c) microglia (d) ependyma
- (vii) How long is the small intestine in an adult?
- (a) 22 feet (b) 30 inches
(c) 30 feet (d) 70 feet
- (viii) What is a section of DNA that codes for a protein called?
- (a) Gene (b) Chromosome
(c) Allele (d) Plasmid
- (ix) The structure that connects kidney to the urinary bladder is the
- (a) ureter (b) urethra
(c) renal pelvis (d) collecting duct
- (x) Which gland controls metabolic rate?
- (a) thyroid (b) parathyroid
(c) testes (d) pancreas
- (xi) The micturition reflex Centre is located in the _____
- (a) Kidney (b) Cerebrum
(c) Hypothalamus (d) Sacral segment of spinal cord
- (xii) Human sperm moves with the help of _____
- (a) cilia (b) flagellum
(c) basal body (d) nucleosome
- (xiii) Which type of neuron are likely to increase muscular activities?
- (a) accelerator neurons (b) inhibitory neurons
(c) bipolar neurons (d) sensory neurons
- (xiv) Spermatogonia are formed by _____
- (a) meiosis (b) mitosis
(c) amitosis (d) meiosis 2nd

(xv) Which of the following hormones are responsible for "fight or flight" response?

- (a) epinephrine (b) norepinephrine
(c) insulin (d) glucagon

(xvi) Which of the following has no enzymes?

- (a) bile (b) pancreatic juice
(c) gastric juice (d) all of the above

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(xvii) Which of these is not an endocrine gland?

- (a) pancreas (b) testes
(c) salivary gland (d) parathyroid gland

(xviii) The renin-angiotensin mechanism is controlled primarily by

- (a) Baroreceptors in blood vessels
(b) Juxtaglomerular cells in kidneys
(c) Collecting ducts in kidneys
(d) Osmoreceptors in the hypothalamus

(xix) Neurolemmocytes is also called as

- (a) Schwann cells (b) Astrocytes
(c) Satellite cells (d) Epidymal cells

(xx) Nerve impulse is

- (a) Carried by afferent and efferent branches
(b) Not carried by afferent and efferent branches
(c) Carried away and brought by efferent branches
(d) Brought by afferent and carried by efferent branches

2. Write short note on following questions (any seven) :

(7 × 5 = 35)

- (a) Describe different types of cells present in the nervous system.
(b) Add a note on role of pepsin in protein digestion.
(c) What is Micturition reflex. Explain the role of kidney in Acid Base balance.
(d) Write a note on Protein synthesis.
(e) Comment on menstrual cycle and its regulation.
(f) Write a brief note on formation and role of ATP and creatinine phosphate.
(g) Give in detail about artificial respiration and its importance.
(h) What is the composition of CSF? Mention its function. (2+3=5)
(i) Explain about the role of thyroid gland in human normal physiology. (5)

3. Long question (answer any *two*) :

(2 × 10 = 20)

- (a) Explain the anatomical features of sympathetic and parasympathetic Nervous system with their functions
 - (b) Draw a neat diagram and describe the organs of Digestive system. Explain their role in digestion of food.
 - (c) Explain the structure and functions of kidney, with mechanism of urine Formation.
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