

Enrolment Number

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Total No. of printed pages = 04

Winter, 2024

Diploma in Pharmacy 1st Year Examination

Human Anatomy and Physiology

Course Code: ER20-14T

Full Marks – 80

Time –3 hours

The figure in the margin indicates full marks for the questions.

20X1= 20

1. Multiple Choice Questions

1. The blood cells that transport oxygen in the blood are the
 - a) Lymphocytes
 - b) Erythrocytes
 - c) Thrombocytes
 - d) Leucocytes
2. The ureters are lined with
 - a) Transitional epithelium
 - b) Stratified epithelium
 - c) Adipose tissue
 - d) Connective tissue
3. Vestibulocochlear nerve is responsible for
 - a) Smell
 - b) Vision
 - c) Hearing and balance
 - d) Taste
4. The epiglottis is composed of
 - a) Muscle
 - b) Cartilage
 - c) Bone
 - d) Elastic connective tissue
5. The ventricles of the brain contains
 - a) Cerebrospinal fluid
 - b) Pericardial fluid
 - c) Perymph
 - d) Endolymph
6. The proportion of glomerular filtrate that is normally reabsorbed is around
 - a) 1%
 - b) 10%
 - c) 50%

- d) 99%
7. The ejaculatory duct are form by the union of
- Ureter duct and duct from seminal vesicle
 - Deferent duct and duct from the seminal vesicle
 - Prostatic duct and seminal vesicle
 - Prostatic duct and Urethra
8. Erythrocytes survive in the blood stream for an average of
- 6 days
 - 6 months
 - 3 weeks
 - 3 months
9. Micturation is
- Process of urine formation
 - Urinary disease
 - Passing of urine
 - None
10. Which hormones is secreted from adrenal gland
- Insulin
 - Glucagon
 - Aldosterone
 - Somatostatin
11. Which of the following is a moving skull bone?
- Frontal
 - Mandible
 - Nasal
 - All of the above
12. Functional unit of kidney is called
- Neuron
 - Cortex
 - Nephron
 - Inner medulla
13. Junction between two nerves is called
- Synapse
 - Neuron
 - Receptor
 - Vesicles
14. Which of the following statement is true about the cell wall
- The cell wall is composed of lipid
 - The cell wall is composed of starch
 - The cell wall is composed of protein
 - The cell wall is composed of cellulose
15. The hormone responsible for RBC production
- Thrombopoietin

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- b) Erythropoietin
c) Growth hormone
d) Thyroxin
16. In our body tendons connects
a) Muscle to muscle
b) Muscle to bone
c) Muscle to skin
d) Bone to Bone
17. Sound is produced in the following organ
a) Pharynx
b) Trachea
c) Bronchus
d) Larynx
18. Insulin is release from
a) Adrenal gland
b) Liver
c) Thyroid gland
d) Pancreas
19. Which is the outermost layer of the meninges
a) Dura mater
b) Arachnoid mater
c) Corpus callosum
d) Pia mater
20. Normal cardiac cycle takes _____ seconds to complete.
a) 0.1
b) 0.008
c) 0.001
d) 0.8

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2. Short Questions (Any Ten) (80-100 words)

10 x 3=30 marks

1. Explain rennin-angiotensin system.
2. Define cell. Draw a neat label diagram of cell.
3. Explain different disorders of joints.
4. Describe the mechanism of blood clotting mentioning its factors.
5. Explain the different waves of ECG.
6. Draw a neat label diagram of lymph node and mention its function.
7. Mention all the cranial nerves with their functions.
8. Explain spermatogenesis.
9. Define
 - a) Tidal Volume
 - b) External and Internal respiration
10. Write a short note on eye with diagram.
11. Write about various cranial nerves and mention their functions

3. Long Question (Any Six) (150 words)

1. Explain the physiology of menstruation.
2. Define joints. Describe the different types of joints.
3. Define reflex action? Explain the mechanism of reflex action with a suitable example.
4. Explain the anatomy and physiology of heart with neat diagram.
5. Describe the physiology of urine formation.
6. Explain different simple epithelium tissue with diagram.
7. Write brief about the importance of spleen and its function.