REV-01 BOP/15/20

> BACHELOR OF OPTOMETRY FIRST SEMESTER **GENERAL ANATOMY BOP-105**

[USE OMR SHEET FOR OBJECTIVE PART]

Duration: 3 hrs.

Objective)

Time: 30 mins.

Marks: 20

Choose the correct answer from the following:

 $1 \times 20 = 20$

Full Marks: 70

2024/11

SET

- 1. Which of the following is NOT a division of the autonomic nervous system?
 - a. Sympathetic

b. Parasympathetic

c. Somatic

- d. Enteric
- 2. The Haversian system is typically found in:
 - a. Spongy bone

- b. Cartilage
- d. Periosteum c. Compact bone
- a. Rods and cones
- 3. The optic nerve is primarily composed of axons of: b. Bipolar cells
 - c. Ganglion cells

- d. Amacrine cells
- 4. What is the primary role of the parasympathetic nervous system?
 - a. Fight-or-flight response
- b. Rest-and-digest response
- c. Regulating body temperature
- d. Controlling voluntary muscle movement
- 5. Osteocytes are located within:
 - a. The Haversian canal

- b. The lamellae d. The periosteum
- c. The lacunae
- 6. The joint between the radius and ulna is a:

a. Pivot joint

b. Hinge joint

c. Gliding joint

- d. Saddle joint
- 7. The part of a neuron that receives signals from other neurons is the:
 - a. Axon

b. Dendrite

c. Soma

- d. Synapse
- 8. The optic chiasm is a point where:
 - a. The optic nerves partially cross over
- b. The optic nerves join together
- c. The optic nerves terminate
- d. The optic nerves exit the skull
- Which bone cells are responsible for bone formation?
 - a. Osteoblasts

b. Osteoclasts

c. Osteocytes

- d. Chondrocytes
- 10. The branch of anatomy that deals with the structure of organs and organ systems is:

1

a. Gross anatomy

b. Microscopic anatomy

c. Histology

d. Embryology

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11.	Which type of joint allows for the greatest r a. Synarthrosis c. Diarthrosis	b.	e of motion? Amphiarthrosis Fibrous joint
12.	Which type of joint is found between the boa. Ball-and-socket joint c. Gliding joint	b.	s of the vertebrae of the spine? Hinge joint Pivot joint
13.	Bursae are typically found in areas of the boa. Bones meet c. Tendons and ligaments slide over bones	b.	where: Muscles attach to bones All of the above
14.	A fracture of the surgical neck of the humer a. Axillary nerve c. Median nerve	b.	can result in damage to the: Radial nerve Ulnar nerve
15.	Elastic cartilage is found in: a. The trachea c. The intervertebral discs		The external ear The meniscus of the knee
16.	The sectional plane that divides the body in a. Transverse plane c. Coronal plane	b.	nterior and posterior portions is: Sagittal plane Oblique plane
17.	All of the following bones are pneumatic boa. Maxilla c. Frontal	b.	except: Mandible Sphenoid
18.	In adults, the red bone marrow is found in a a. Sternum c. Vertebrae	b.	f the following sites except: Ribs Medullary cavity of long bones
19.	All statements are true regarding hyaline ca a. Has a homogeneous bluish-stained matrix	rtila b.	age except that it: Has a clear glassy appearance
20	c. Forms cartilaginous model of most of the long bones		
20.	All of the following bones are examples of s a. Patella c. Pisiform	b.	noid bone except: Fabella Scaphoid

(<u>Descriptive</u>)

Time: 2 hr. 30 mins.		
	[Answer question no.1 & any four (4) from the rest]	
1.	Discuss the ultra structure of a eukaryotic cell with a neat labeled diagram. Explain the role of each cell organelle.	10
2.	What are the bony orbits? What structures does the bony orbit contain? How many Vertebrae are there in the human body and how do you differentiate between them? Enumerate the structure passing through foramen magnum.	10
3.	With a neat diagram, name and draw the male reproductive system. Define what is spermatogenesis. Describe testes under the following headings: (a) Location (b) Gross anatomy (c) Function (d) Clinical anatomy	10
4.	Name the accessory organs of digestive system. Enumerate the function of liver. What are the components of extrahepatic biliary apparatus? What are the differences between the small intestine and large intestine?	10
5.	Describe the different types of connective tissues found in the human body. Highlight their structural features and functions.	10
6.	Compare and contrast the three types of muscle tissue, focusing on their structure, location, and function.	10
7.	Describe the different types of epithelial tissues found in the human body. Explain their structural features and functions.	10
8.	Describe the lymphatic system in detail, focusing on its anatomical components and functions.	10
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