

**SECTION C — (5 × 8 = 40 marks)**

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 600 words.

16. (a) Structure and functions of cell — Describe with diagram.

Or

- (b) Classification of Joints - Explain.

17. (a) Classification of muscles - Explain.

Or

- (b) General characteristics of muscle - Explain.

18. (a) Structure and functions of heart — Describe with diagram.

Or

- (b) Explain types of blood vessels and its functions.

19. (a) Second wind, vital capacity and oxygen debt - Explain.

Or

- (b) Describe the mechanism of breathing.

20. (a) Structure and functions of Gastro intestinal tract — Describe with diagram.

Or

- (b) Structure and functions of neuron — Explain with diagram.

Reg. No. : .....

**Code No. : 40650 E Sub. Code : SAPE 11**

**B.Sc. (CBCS) DEGREE EXAMINATION,  
NOVEMBER 2019.**

**First Semester**

**Physical Education – Allied**

**ANATOMY AND PHYSIOLOGY**

**(For those who joined in July 2017 onwards)**

**Time : Three hours**

**Maximum : 75 marks**

**SECTION A — (10 × 1 = 10 marks)**

**Answer ALL questions.**

**Choose the correct answer :**

1. Structural and functional unit of human body is

- (a) Organ (b) Tissue  
(c) Cell (d) Muscle

2. How many bones are in Adult Human body?

- (a) 205 (b) 206  
(c) 207 (d) 208

3. Toward or at the midline of the body is called

- (a) Medial (b) Lateral  
(c) Superior (d) Inferior



4. Osteology is the study of
  - (a) Muscles
  - (b) Heart
  - (c) Neuron
  - (d) Bones
5. Normal pulse rate of human being is
  - (a) 72
  - (b) 82
  - (c) 62
  - (d) 92
6. Combination of systole and diastole is called
  - (a) Cardiac Cycle
  - (b) Cardiac Output
  - (c) Pulse Rate
  - (d) Blood Pressure
7. Alveoli is otherwise called as
  - (a) Bronchi
  - (b) Lungs
  - (c) Air Sacs
  - (d) All of these
8. Structural and functional unit of excretory system is
  - (a) Muscle fibre
  - (b) Neuron
  - (c) Nephron
  - (d) Tissue
9. The main job of \_\_\_\_\_ is to filter the blood coming from the digestive tract, before passing it to the rest of the body.
  - (a) Spleen
  - (b) Liver
  - (c) Stomach
  - (d) Intestine

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10. How many bones are presented in vertebrae?

- (a) 33
- (b) 35
- (c) 34
- (d) 32

SECTION B — (5 × 5 = 25 marks)

Answer ALL questions choosing either (a) or (b).

Each answer should not exceed 250 words.

11. (a) Define the term tissue, organ system and organism.

Or

- (b) Functions of the Skeleton - Explain.

12. (a) Circulation of Blood - Explain.

Or

- (b) Write notes on Cardiac output.

13. (a) Define the term Myology, Histology and Neurology.

Or

- (b) Write the functions of Blood.

14. (a) Exchange of cases - Explain.

Or

- (b) Draw a neat diagram of Kidney and label its parts.

15. (a) Functions of liver - Explain.

Or

- (b) Reflex arc - Explain.

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