



BRAINWARE UNIVERSITY

Term End Annual Examination 2020 – 21

Programme – Bachelor of Science in Nursing

Course Name – Anatomy and Physiology

Course Code – BNS101

(Year – I)

Time allotted: 3 hrs.

Full Marks: 75

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable. Write answer of Section – A and Section –B in separate Answer booklet.]

Section – A

1. Write short answer on any *three* of the following: 3 x 5 = 15
 - (I) Long bone. [5]
 - (II) Meninges. [5]
 - (III) Ball and socket joint. [5]
 - (IV) Layers of skin. [5]
 - (V) Pharynx. [5]

2. Write the answer of the following: [2+4+4 = 10]
 - (I) a) List down the endocrine glands of our body.
 - b) Describe lobes of pituitary gland.
 - c) Briefly describe the hormones secreted from anterior and posterior pituitary gland.

3. Write the answer of the following (any *one*): 1 x 12 = 12
 - (I) a) Enumerate the organs of digestion including accessory organs. [2]
 - b) Describe in details about the stomach under the following headings: [2+2+4+2 = 10]
 - i) Location.
 - ii) Parts.
 - iii) Structures of muscular layers of the stomach.
 - iv) Blood supply.

(II)

- a) Enumerate the organs of the respiratory system. [2]
- b) Describe lungs under the following headings: [2+2+2+4 = 10]
- i) Shape, Size and Weight.
 - ii) Location.
 - iii) Organs in association.
 - iv) Structure of alveoli.

Section –B

1. Write short answer on any *three* of the following:

3 x 5 = 15

- (I) Functions of Bone. [5]
- (II) Regulation of body temperature. [5]
- (III) Properties of cardiac muscles. [5]
- (IV) Ovulation. [5]
- (V) Blood transfusion. [5]

2. Write long answer on any *one* of the following:

1 x 11 = 11

- (I) [1+2+6+2= 11]
 - a) Define blood pressure.
 - b) What are its normal values?
 - c) Discuss the factors regulating blood pressure.
 - d) What is cardiac output?
- (II) [2+7+2= 11]
 - a) What is Nephron?
 - b) Describe the mechanism of urine formation in detail.
 - c) What is diabetes insipidus?

3. Write long answer of the following:

[2+8+2 = 12]

- (I)
 - a) What is ovulation?
 - b) Describe the menstrual cycle in detail.
 - c) What is dysmenorrhea?