



BRAINWARE UNIVERSITY

Term End Backlog Annual Examination, March- 2022

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) Fallopian tube. [5]
 - (II) Adrenal gland. [5]
 - (III) Blood groups. [5]
 - (IV) Nephron. [5]
 - (V) Gall bladder. [5]
2. Write the answer of the following: [3+7 = 10]
 - a) Enlist the different special sensory organs of human body.
 - b) Describe the structure of an eye ball.
3. Write the answer of the following (any *one*): 1 x 12= 12
 - (I) a) Enlist the organs of the cardiovascular system. [2+2+5+3=12]
 - b) Describe the heart under the following headings-
 - i) Location.
 - ii) Interior of the heart.
 - iii) Blood supply of the heart.

(11)

- a) Define insulin
- b) Describe how insulin helps in the control of blood sugar
- c) Write about the regulation of insulin.

[3 x 5 = 15]

Section - II

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

3 x 5 = 15

- (i) Carbohydrate diet
- (ii) Composition of blood
- (iii) Hypoxia
- (iv) Functions of bones.
- (v) Regulation of protein

[5]

[5]

[5]

[5]

[5]

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

6 x 5 = 30

(i)

[6 x 5 = 30]

- a) What are the important components of bile?
- b) Explain the functions of liver.
- c) What is jaundice?

(ii)

[6 x 5 = 30]

- a) Explain erythropoiesis?
- b) Define the various values of R.B.C. in adult male and female.
- c) Mention the factors influencing erythropoiesis.

3. Write long answer of the following:

[6 x 5 = 30]

- a) What is diabetes mellitus?
- b) Describe the role of insulin and glucagon in regulation of blood glucose level.
- c) Describe normal blood glucose level of adult male and female.