The Assam Royal Global University, Guwahati
Royal School of Pharmacy
B. Pharmacy II Semester
Semester End Examination, July 2022
Course Title: Human Anatomy and Physiology-II
Course Code: PHR232C201

Time: 3 Hours **Maximum Marks: 75**

Note: Attempt all questions as per instructions given.
The figures in the right-hand margin indicate marks.

Section - A

Q1. Attempt all question (Maximum word limit 50): **2.5x8=20**
   a) Outline the functions of durameter and piamater.
   b) Discuss the characteristic feature of neuroglial cells.
   c) What are the accessory glands involved in process of digestion.
   d) Write the role of pepsin in protein digestion.
   e) What is GFR? How is it determined?
   f) What do you mean by artificial respiration?
   g) Name the hormones secreted by adrenal glands.
   h) Write the functions of prostate glands.

Section - B

Q2. Attempt **any one** of the following: **13x1=13**
   a) Classify nervous system. Discuss the functions of autonomic nervous system.
   b) Write the mechanism of synaptic transmission of nerve impulse with a diagram.

Q3. Attempt **any two** of the following: **7x2=14**
   a) Discuss the sequence of steps involved in the process of digestion. Write in short the mechanism of HCl production in stomach.
   b) Write the major and minor salivary glands with its functions
   c) Write the anatomy and physiology of pancreas.

Q4. Attempt **any two** of the following: **7x2=14**
   a) Write the physiology and functions of lungs.
   b) Discuss the physiology of urine formation.
   c) Explain the various parameters used to assess lung capacities.

Q5. Attempt **any two** of the following: **7x2=14**
   a) Write the anatomy and physiology of pituitary gland. Outline the hormones secreted by pituitary glands.
   b) Discuss the hormonal physiology of menstrual cycle.
   c) Explain the spermatogenesis phenomena.