# Rajiv Gandhi University of Health Sciences, Karnataka I Year B.Sc. Optometry Degree Examination - 20-Nov-2024

**Time: Three Hours** 

#### GENERAL ANATOMY AND GENERAL PHYSIOLOGY (RS-4) Section B: GENERAL PHYSIOLOGY- (50 Marks) O.P. CODE: 3342

Your answers should be specific to the questions asked Draw neat, labeled diagrams wherever necessary (Note: Both QP Codes 3341 and 3342 are to be answered within total duration of 3 hours)

#### LONG ESSAYS (First Question Choice)

1. Define Erythopoeisis. Discuss the stages and factors affecting erythropoeisis. **Or** 

What are functions of three types of muscle? Write a brief note on physiology of muscle contraction in skeletal muscle.

#### SHORT ESSAYS (Question No 5 choice)

- 2. Functions of liver.
- 3. Define cardiac output. Mention the factors regulating it.
- 4. What is excretion? Describe the process of urine formation with diagram of nephron.
- 5. Synthesis, action and functions of thyroid hormones.

Zones of adrenal cortex-hormones and functions.

6. Mechanism of respiration.

#### SHORT ANSWER (Question No. 10 choice)

- 7. What is fertilization, ovulation and gametogenesis.
- 8. Islet cell of langerhans and its function.
- 9. Functions of large intestine.
- Define Synapse and its types.
  Or
  Define Neuron and its types.

11. Heart sounds.

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## 5 x 3 = 15 Marks

### 1 x 10 = 10 Marks

5 x 5 = 25 Marks

Max. Marks: 100 Marks