Rajiv Gandhi University of Health Sciences, Karnataka

I Semester B. Sc Nursing Degree Examination - 06-Jan-2026

Time: Three Hours **Max. Marks: 38**

APPLIED PHYSIOLOGY – SECTION – B (RS-6)
Q.P. CODE: 1776

Your answers should be specific to the questions asked
Draw neat, labeled diagrams wherever necessary

(Note: Both QP Codes 1775 and 1776 are to be answered within total duration of 3 hours)

LONG ESSAY **1 x 10 = 10 Marks**

1. Explain the mechanism of synaptic transmission and properties of synapses

SHORT ESSAYS **3 x 5 = 15 Marks**

2. Explain the function of Gall bladder
3. Enumerate the factors influencing coronary circulation
4. Describe the mechanism of muscle contraction

SHORT ANSWERS **3 x 2 = 6 Marks**

5. Mention the air sinuses opening into middle meatus
6. List the four functions of thymus gland
7. Define Atonic Bladder

Multiple Choice Questions **7 x 1 = 7 Marks**

8. The type of intracellular connection through which the molecules move is
   A. Desmosomes
   B. Gap junction
   C. Tight junction
   D. Ion channels
9. First heart sound is produced due to the closure of
   A. Semilunar valves
   B. Mitral valve
   C. Tricuspid valve
   D. Both mitral and tricuspid valve
10. Erythropoietein is produced in
   A. Kidneys
   B. Bone marrow
   C. Spleen
   D. Lung
11. Disturbed taste sensation is called
   A. Ageusia
   B. Dysgeusia
   C. Parosmia
   D. Anosmia
12. The number of nephrons in each kidney is
   A. One lakh
   B. One million
   C. Two million
   D. One billion
13. The total number of parathyroid gland present in humans are
   A. 5
   B. 2
   C. 3
   D. 4
14. The process of union of male and female gametes is called
   A. Luteinisation
   B. Implantation
   C. Neutralisation
   D. Fertilization

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