

Rajasthan University of Health Sciences

5001

B.Sc. Nursing- I Semester (Supp.) Examination June-2024

APPLIED ANATOMY & APPLIED PHYSIOLOGY

Instructions to the candidates:

1. Do not write anything on question paper except Roll Number, otherwise it shall be deemed as an act of indulging in unfair means and action shall be taken as per rules.

2. Use separate answer book for each section.

Duration: 3 Hours

Total Marks: 75

Section-A (Applied Anatomy)

1. Long/Essay type questions (Attempt any one): **1 x 10=10**

1. Describe the gross anatomy of heart in detail.
2. Enumerate the parts of respiratory system and write down about the lungs.

2. Short notes (Attempt any three): **3x5=15**

1. Draw a labelled diagram of the eyeball.
2. Structure of a cell.
3. Name any five cranial nerves and their functions.
4. Explain accessory organ of digestion.

3. Very short questions (Attempt any three): **3x2=6**

1. List down any four functions of growth hormone.
2. Discuss the classification of joint.
3. Name three middle ear bones.
4. What is meant by voluntary muscles?
5. What is tissue? Enlist the types of tissues.

4. Answer the following MCQ:

i) The shoulder joint is:

1. Non movable
2. A synovial joint
3. Ball & socket joint
4. None of the above

ii) Cardiac muscles are..... types of muscles:

6x1=6

1. Voluntary
2. Skeletal
3. Contractile
4. Involuntary

iii) Lub Dub are the sounds of:

1. Liver
2. Pulse
3. Lungs
4. Heart

iv) Lungs are enclosed within:

1. Perichondrium
2. Periosteum
3. Pleural membrane
4. Pericardium

v) Pigment responsible for color of the skin is:

1. Melanin
2. Carotene
3. Biotin
4. All of the above

vi) The most abundant tissue in human body:

1. Epithelial
2. Muscle
3. Connective
4. Nervous

Section-B (Applied Physiology)

1. Long/Essay type questions (Attempt any one):

1x10=10

1. Describe the process of oxygen transport from lungs to the tissues.
2. Define and draw a diagram of cardiac cycle. Describe the ventricular events in cardiac cycle.

2. Short notes (Attempt any three):

3x5=15

1. Enumerate the different blood groups and the importance of determination of blood groups.
2. Functions of thyroid hormones.
3. Functions of white blood cells.
4. Explain the mechanism of muscle contraction.

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3. Very short questions (Attempt any three):

(3x2=6)

1. List down any four functions of growth hormone.
2. What is vital capacity and its normal value?
3. Any two functions of cell membrane.
4. List any two physiological properties of skeletal muscles.

4. Answer the following MCQ:

7x1=7

i) The pancreas is responsible for:

1. Bone development
2. Metabolism control
3. Maintaining sugar level
4. Distribution of stored fat

ii) Oesophagus is located in which body cavity:

1. Thoracic
2. Pelvic
3. Abdominal
4. None of the above

iii) The structure that regulate the transportation of substance in and out of the cell.

1. Golgi apparatus
2. Nucleus
3. Villi
4. Cellular membrane

iv) The hormone responsible for milk production by the mammary glands is:

1. Oxytocin
2. Progesterone
3. Prolactin
4. Calcitonin

v) The WBC having phagocytic function is:

1. Neutrophils
2. Eosinophil
3. Basophil
4. Lymphocyte

vi) Receptors for colour vision are:

1. Rods
2. Bipolar cells
3. Cones
4. Ganglion cells

vii) Under resting condition the cardiac output is:

1. 1-2 L/min
2. 3-4 L/min
3. 5-6 L/min
4. 6-7 L/min

Solid Questions paper

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Q. 2. Short notes

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2. Structure Of Cell
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Q. 3. Very short questions

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