

APPLIED PHYSIOLOGY – SECTION – B (RS-6)

Q.P. CODE: 1776

(QP Contains Two Pages)

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

Explain the functional areas of Cerebrum

SHORT ESSAYS

3 x 5 = 15 Marks

Explain the metabolism of carbohydrate

Explain cardiac cycle

Describe the structure and functions of lymph nodes

Describe the structure

Explain the types of pain with example

function lymph node

SHORT ANSWERS

3 x 2 = 6 Marks

Define expiratory capacity

Define Cushing's syndrome

Write a note on micturition

Multiple Choice Questions

7 x 1 = 7 Marks

The long, hollow, tubular structures attached to the cytoplasmic membrane which helps in movement of a cell is known as

- ☒ A. Cell wall
- ☐ B. Flagella
- ☐ C. Cytoplasm
- ☐ D. Hair

The amount of blood ejected from the heart by each contraction of ventricles is known as

- ☐ A. Stroke volume
- ☒ B. Cardiac Output
- ☐ C. Ventricular output
- ☐ D. Blood volume

The blood group which is known as "universal Recipient" is

- ☐ A. O
- ☐ B. A
- ☐ C. B
- ☒ D. AB

11. The hormone which regulates Blood calcium level is

- ☐ A. Parathormone
- ☐ B. Thyroxine
- ☒ C. Tri- Iodothyroxine
- ☐ D. Adrenaline

12. Organ of Corti helps in

- ☐ A. Balancing
- ☒ B. Maintaining equilibrium
- ☐ C. Hearing
- ☐ D. Formation of wax

13. The first step in formation of urine is

- ☐ A. Secretion
- ☒ B. Filtration
- ☐ C. Absorption
- ☐ D. Reabsorption

14. The secretions of milk by the mammary gland is termed as

- ☐ A. Menstruation
- ☒ B. Lactation
- ☐ C. Menarche
- ☐ D. Puberty

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I Semester B. Sc Nursing Degree Examination - 16-Dec-2024

Time: Three Hours

Max. Marks: 38

APPLIED PHYSIOLOGY – SECTION – B (RS-6)

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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

- Describe the movements of the gastrointestinal tract and explain the phases of secretion of Gastric juice

SHORT ESSAYS

3 x 5 = 15 Marks

- Classify the leukocytes and explain the functions of Leukocytes
- State the functions of skeleton
- Describe the functions of autonomic nervous system

SHORT ANSWERS

3 x 2 = 6 Marks

- List down the factors affecting diffusion of gases
- Enlist any four functions of Cortisol
- State the hormones that regulate the glomerular filtration rate

Multiple Choice Questions

7 x 1 = 7 Marks

- The tiny granules composed of RNA & protein is
 - Nucleus
 - Lysosomes
 - Ribosomes
 - Mitochondria
- The first heart sound LUB is heard during the closure of
 - Aortic valve
 - Semilunar valve
 - Pulmonary valve
 - Atrio ventricular valve
- The clear, straw coloured fluid portion of the blood which represents 55% of the total blood volume is called
 - Cells
 - Plasma
 - Platelets
 - Serum
- Endocrine gland is otherwise called as
 - Ducted gland
 - Ductless gland
 - Enzyme
 - Hormone

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- The secretions of sebaceous gland is called
 - Keratin
 - Melanin
 - Sebum
 - Bile
- The three orifices in the urinary bladder wall form a triangle known as
 - Trigone
 - Trisomy
 - Urethral orifice
 - Ureter opening
- The male reproductive cell, spermatozoa is produced from
 - Testis
 - Scrotum
 - Fallopian tubes
 - Ovary



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I Semester B. Sc Nursing Degree Examination – 30th April 2024

Time: Three Hours

Max. Marks: 38

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LONG ESSAY

1 x 10 = 10 Marks

1. Describe the digestion in mouth.

SHORT ESSAYS

3 x 5 = 15 Marks

2. Explain the hepatic portal system

Or

Explain the functions of liver

3. Describe the movements of pelvic girdle and explain the functions of pelvis

4. Elaborate parasympathetic nervous system

SHORT ANSWERS

3 x 2 = 6 Marks

5. Define Bronchiectasis
6. Define Gigantism
7. Enlist any four abnormal constituents of urine

Multiple Choice Questions

7 x 1 = 7 Marks

8. The process of 'cell eating' is termed as
 - A. Pinocytosis
 - B. Phagocytosis
 - C. Exocytosis
 - D. Epicytosis
9. The difference between systolic & diastolic blood pressure is
 - A. Arterial Pressure
 - B. Hydrostatic pressure
 - C. Pulse pressure
 - D. Osmotic pressure
10. Hemolysis is the process of
 - A. Destruction of all blood cells
 - B. Destruction of RBC
 - C. Destruction of WBC
 - D. Destruction of platelets

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11. Glucocorticoids is produced by
 - A. Adrenal cortex
 - B. Parathyroid gland
 - C. Adrenal medulla
 - D. Pancreatic Islets
12. The layer of the skin that provides elasticity and pliability is
 - A. Stratum lucidum
 - B. Stratum germinativum
 - C. Dermis
 - D. Epidermis
13. Urinary excretion of sodium is regulated by
 - A. Anterior pituitary
 - B. Posterior pituitary
 - C. Adrenal cortex
 - D. Adrenal medulla
14. The process of cell division in reproductive cell is
 - A. Mitosis
 - B. Meiosis
 - C. Mutation
 - D. Replication



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I Semester B. Sc Nursing Degree Examination - 12-Jan-2024

Time: Three Hours

Max. Marks: 38

APPLIED PHYSIOLOGY – SECTION – B (RS-6)

Q.P. CODE: 1776

(QP Contains Two Pages)

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. Describe Neuroglia and its functions.

SHORT ESSAYS

3 x 5 = 15 Marks

2. Explain the metabolism of fat
3. Enumerate the functions of thymus gland
4. Describe the functions of arm muscles

SHORT ANSWERS

3 x 2 = 6 Marks

5. Define sinusitis
6. Mention the function of Antidiuretic Hormone
7. State the role of kidney in water balance

Multiple Choice Questions

7 x 1 = 7 Marks

8. The watery fluid that is present inside the cell is
 - A. Plasma
 - B. Cytosol
 - C. Blood
 - D. Serum
9. In a healthy adult the cardiac output at rest is
 - A. 2.5 ltr/mt
 - B. 5 lit/mt
 - C. 7.5 ltr/mt
 - D. 10 ltrs/ mt
10. The process of blood cell formation takes place in
 - A. Red bone marrow
 - B. Yellow bone marrow
 - C. Matrix of the bone tissue
 - D. Plasma
11. The hypo activity of growth hormone leads to
 - A. Goitre
 - B. Dwarfism
 - C. Gigantism
 - D. Cretinism

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12. Sense of smell is perceived by
 - A. Pituitary
 - B. Hypothalamus
 - C. Olfactory lobe
 - D. Cerebrum
13. Urine is clear and amber in colour due to presence of
 - A. Creatinine
 - B. Urolin
 - C. Urobilin
 - D. Rennin
14. The lactiferous duct is present in
 - A. Uterus
 - B. Breast
 - C. Testis
 - D. vestibule



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I Semester B. Sc Nursing Degree Examination - 14-Jun-2023

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. List the composition of saliva and explain the mechanism of secretion and function of saliva

SHORT ESSAYS

3 x 5 = 15 Marks

2. Describe the regulation of cardiac output
3. Explain the properties of nerve fibres
4. Describe a reflex arc with the help of a diagram

SHORT ANSWERS

3 x 2 = 6 Marks

5. Name the muscles of respiration
6. List the hormones secreted by anterior pituitary
7. Enlist any four functions of nephrons

Multiple Choice Questions

7 x 1 = 7 Marks

8. The movement of particles from a region of higher concentration to the region of lower concentration is termed as
 - A. Diffusion
 - B. Endocytosis
 - C. Pinocytosis
 - D. Osmosis
9. In pulmonary circulation, blood is pumped from
 - A. Right atrium
 - B. Right ventricle
 - C. Left atrium
 - D. Left ventricle
10. The total volume of blood present in human adult is around
 - A. 3L
 - B. 5L
 - C. 8L
 - D. 10L
11. The hormone secreted by posterior pituitary is
 - A. Luteinising Hormone
 - B. Follicle Stimulating Hormone
 - C. Vasopressin
 - D. Growth Hormone
12. The receptors for vision are
 - A. Rods
 - B. Hair cells
 - C. Macula
 - D. Crista
13. The renal threshold for glucose is
 - A. 180 mg/dl
 - B. 325 mg/dl
 - C. 180 mg/min
 - D. 325mg/min

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14. Follicle Stimulating Hormone is secreted from
 - A. Anterior Pituitary
 - B. Posterior Pituitary
 - C. Ovary
 - D. Placenta



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I Year B.Sc. Nursing Degree Examination – 24-Feb-2023

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY (RS3, RS4 & RS5)

Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Define Erythropoiesis. Describe the stages of Erythropoiesis. Name the factors influencing it.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Describe the functions of medulla oblongata.
3. Explain the chemical regulation of Respiration
4. Explain the composition and functions of Gastric juice.
5. Describe the functions of Nephrons.

SHORT ANSWERS

4 x 2 = 8 Marks

6. State All or None Law.
7. What is Presbyopia?
8. List down any four functions of Growth Hormone.
9. What is Dysmenorrhoea?



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I Year B.Sc. Nursing Degree Examination – 20-May-2022

Time: Three Hours

Max. Marks: 38 Marks

PHYSIOLOGY (RS2, RS3, RS4 & RS5) Q.P. Code: 1754

Your answers should be specific to the questions asked.

Draw neat labeled diagrams wherever necessary. Answer All Questions

(Note : Both QP Codes 1753 and 1754 are to be answered within total duration of 3 hours)

LONG ESSAYS

1 x 10 = 10 Marks

1. Describe the stages of Erythropoiesis. Name the factors influencing it.

SHORT ESSAYS

4 x 5 = 20 Marks

2. Enumerate the cranial nerve and list down functions of any five Cranial Nerves.
3. Explain the mechanism of oxygen transport in blood.
4. Explain the composition and functions of Gastric Juice.
5. Explain the mechanism of formation of Urine.

SHORT ANSWERS

4 x 2 = 8 Marks

6. What is Lordosis?
7. What is Presbycusis?
8. What is Cretinism?
9. What are the functions of Ovary?

