

APRIL - 1990

043

**BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION,
APRIL 1990.**

First Semester

PHYSIOLOGY

(Common to B.O.T. — First Semester examination)

Time : Three hours.

Maximum : 100 marks.

Answer QUESTION No. 9 and SEVEN others.

1. Describe the mechanism of coagulation of blood.
(10 marks)
2. Define cardiac output. Give the normal value.
Discuss the physiology of regulation of cardiac output.
(10 marks)
3. Explain the mechanism of oxygen transport in the body.
(10 marks)
4. Give an account of the composition, functions and control of secretion of gastric juice.
(10 marks)
5. What are the hormones secreted by the Adrenal gland? What are their actions?
(10 marks)
6. Define a nerve impulse. Explain the mechanism of conduction of a nerve impulse along the nerve fibre.
(10 marks)

7. What are the changes that take place in the tubular fluid as it passes along the distal convoluted tubule?
(10 marks)

8. Where is testosterone produced in the body? What are its actions?
(10 marks)

9. Write short notes on any *five* of the following

(a) Neuromuscular junction.

(b) Gigantism.

(c) Blood groups.

(d) Receptors in the retina.

(e) Electrocardiogram.

(f) Hypoxia.

(5 × 6 = 30 marks)

NOVEMBER - 1990

043

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION
(B.P.T.), NOVEMBER 1990.

First Semester

PHYSIOLOGY

(Common to Bachelor of Occupational Therapy (B.O.T.)—
First Semester)

Time : Three hours

Maximum : 100 marks

Answer Question No. 9 and SEVEN others.

1. Classify the leukocytes. Describe the structure and functions of each type. (10 marks)
2. Define Blood Pressure. What is the normal value? Explain the mechanism of maintenance of normal blood pressure. (10 marks)
3. Discuss the physiology of regulation of respiration. (10 marks)
4. What is the normal composition of saliva? Enumerate its functions. (10 marks)

Draw a diagram of the cross-section of spinal cord and name the parts. Trace the pathway for pain sensation. (10 marks)

5. Draw a diagram of the nephron. Explain the mechanism of urine formation. (10 marks)

6. What are the hormones produced by the anterior-pituitary gland? Describe their actions. (10 marks)

7. Discuss the physiology of menstrual cycle. (10 marks)

8. Write short notes on any FIVE of the following :

- (a) Skeletal muscle.
- (b) Endocrine functions of pancreas.
- (c) Platelets.
- (d) Cerebrospinal fluid.
- (e) Inner ear and its functions.
- (f) Properties of cardiac muscle.

(5×6=30 marks)

APRIL - 1991

091

BACHELOR OF PHYSIOTHERAPY (B.P.T.) DEGREE
EXAMINATION, APRIL 1991.

First Semester

PHYSIOLOGY

(Common to Physiology — First Semester — B.O.T.)

Time : Three hours.

Maximum : 100 marks.

Answer Question No. 9 and SEVEN others.

1. What are the factors required for clotting of blood? Describe the mechanism of coagulation. (10 marks)
2. What is the normal heart rate? Explain the mechanism of regulation of heart rate. (10 marks)
3. Describe the physiology of O₂ transport in the body. (10 marks)
4. What is the composition of gastric juice? Describe the mechanism of regulation of gastric secretion. (10 marks)
5. Draw a diagram of the cross section of spinal cord and name the parts. Trace the pathway for touch sensation. (10 marks)
6. Name the hormones secreted by the testis. What are their actions? (10 marks)

7. Describe the structure of the Thyroid gland. Name the hormones secreted by the Thyroid gland. What are their actions? (10 marks)
8. Describe the physiology of micturition. (10 marks)
9. Write short notes on any *five* of the following :
 - (a) Chemistry of muscle contraction.
 - (b) Parathyroid gland.
 - (c) Hypoxia.
 - (d) Properties of cardiac muscle.
 - (e) Types of nerve fibres.
 - (f) Blood groups. (50 marks)

APRIL - 1992

[873]

BACHELOR OF PHYSIOTHERAPY DEGREE E. AMINATK
APRIL 1992.

Second Semester — New Regulations

Paper II — PHYSIOLOGY

(Common to B.P.T. and B.O.T. Examination)

Time : Three hours. Maximum : 100 marks

Answer question No. 9 and SEVEN others.

1. Name the plasma proteins. Describe their function
(10 marks)
2. Define cardiac impulse. Draw diagrammatically
conducting system of the heart. (10 marks)
3. Enumerate the various artificial respiration methods.
Describe one method in detail giving reasons why
prefer this method. (10 marks)
4. Define deglutition. Describe the second stage
detail. (10 marks)
5. Describe the clinical manifestations of a complete
section of the spinal cord. (10 marks)
6. Describe the innervation of the urinary bladder.
Which nerve is essential for the emptying of the bladder
(10 marks)

7. How much is the normal serum calcium level?
Describe the hormones regulating the normal serum
calcium level. (10 marks)

8. Write briefly on spermatogenesis. (10 marks)

9. Write short notes on any FIVE of the following :

(a) Haemophilia.

(b) Synapse.

(c) Tremors.

(d) EMG.

(e) Facial palsy.

(f) Muscle spindle. (5 × 6 = 30 marks)

NOVEMBER - 1993

[PR 627]

Bachelor of Physiotherapy

Degree Examination

First Semester

(New Regulations)

Paper II PHYSIOLOGY

(Common to BPT and BOT)

Time: Three hours

Max. Marks: 100

Answer question Number 10 and SEVEN OTHERS

(7X10 = 70)

1. Describe the microscopical structure of the skeletal muscle and give an account of muscle proteins.
2. Draw a schematic diagram of a synapse and label its parts. Briefly describe excitatory synaptic transmission.
3. Describe the composition, functions and regulation of secretion of pancreatic juice.
4. Name the different plasma proteins and describe the function of each.
5. Describe the different parts of renal tubules and mention their functions.
6. Describe the structure and functions of the parathyroid glands.
7. Classify Hypoxia, what are the causes of each type of Hypoxia? What are the types which will respond to oxygen therapy?
8. Draw and describe a normal Electrocardiogram (ECG) as recorded with a set of Bipolar limb leads.
9. Describe the Haemo respiratory changes during exercise.
10. Write short notes on any FIVE of the following :
(5x6 = 30)
 - (a) Ovulation
 - (b) Isometric muscle contraction
 - (c) Vital capacity,
 - (d) Properties of cardiac muscle
 - (e) Protein splitting enzymes
 - (f) Blood groups
 - (g) Fat soluble vitamins
 - (h) Myxoedema
 - (i) Heart sounds.

NOVEMBER - 1994

[ND 786]

**Bachelor of Physiotherapy
Degree Examination**

Second Semester

Paper - II PHYSIOLOGY
(Common to BPT and BOT)

Time : Three hours Maximum : 100 marks

Answer Question No 10 and 7 others

1. What is filtration? Explain how this process takes place in two sites in the body
2. Describe clotting of blood
3. What is the normal blood volume? How is it regulated?
4. What is the normal blood pressure? Discuss the mechanisms which serve to regulate the blood pressure
5. Describe the lung function tests
6. Give an account of a balanced diet
7. Describe the steps involved in conversion of glucose molecule to energy

8. Describe the anatomy and physiology of the neuromuscular junction
9. Give an account of the autonomic nervous system
10. Write short notes on any FIVE of the following
(5X6 = 30)
 - a) White blood cells
 - b) Special properties of cardiac muscle
 - c) Transport of Oxygen in blood
 - d) Artificial ventilation
 - e) Structure of nephron
 - f) Parathyroid hormone
 - g) Spermatogenesis
 - h) Role of cerebellum in voluntary muscle contraction
 - i) Refractory errors

APRIL - 1995

[SB 800]

**Bachelor of Physiotherapy
Degree Examination**

(New/Revised Regulations)

Second Semester

Paper II - PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours Maximum : 100 Marks

Answer Questions No 10 and 7 others

1. Describe the composition, functions and regulation of secretion of saliva
2. Give an account of the functions of thyroid hormones
3. What is hypoxia? Briefly describe the types of hypoxia
4. Describe the properties of cardiac muscle
5. Define blood pressure? How is it regulated
6. Describe the mechanics of respiration
7. Define deglutition. Describe the second stage of deglutition.
8. Describe the effects of complete transection of spinal cord.

9. Describe the origin and course of corticospinal tract.

10. Write short notes on any FIVE of the following :
(5X6 = 30)

- a) Plasma proteins
- b) Functions of bile
- c) 1-25 Dihydroxy cholecalciferol
- d) Vital Capacity
- e) Artificial respiration
- f) Taste buds
- g) Juxta Glomerular apparatus
- h) E.S.R.
- i) Spermatogenesis

APRIL - 1996

[AK 903]

Bachelor of Physiotherapy Degree Examination

(New/Revised Regulations)

Second Semester

Paper II - PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours Max : 100 marks.
Answer Section A and B in separate answer books.

SECTION—A

1. Write an essay on any ONE of the following :
 - a) Mechanism of hearing.
 - b) Mechanism of contraction of skeletal muscle. **(14)**
2. Write brief answers on any TWO of the following :
 - a) Chemistry, biosynthesis and functions Thyroxine
 - b) Chemical regulation of respiration
 - c) Methods of measurement of cardiac output **(2X8 = 16)**
3. Write short notes on any FIVE of the following
 - a) Functions of skin
 - b) Vital capacity
 - c) Rh factor
 - d) Pregnancy tests
 - e) Growth hormone
 - f) E.C.G.
 - g) Cerebral circulation **(5X4 = 20)**

SECTION—B

1. Write an essay on any ONE of the following :
 - a) Physiology of menstruation
 - b) Mechanism of micturition **(14)**
2. Write brief answers on any TWO of the following :
 - a) Visual pathway
 - b) White blood corpuscles
 - c) Digestion of carbohydrates **(2X8 = 16)**
3. Write short notes on any FIVE of the following :
 - a) Heart sounds
 - b) Entero hepatic circulation
 - c) Hypoxia
 - d) Lymph
 - e) Gastro intestinal hormones
 - f) Cardio vascular effects of exercise
 - g) Functions of thalamus **(5X4 = 20)**

OCTOBER - 1996

[PK 903]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

Second Semester

(Revised Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A — (50 marks)

1. Write an essay on any ONE of the following : (1 × 14 = 14)
 - (a) Factors that maintain blood pressure.
 - (b) Control of voluntary motor activity.
2. Write brief answers on any TWO of the following : (2 × 8 = 16)
 - (a) Actions and regulation of secretion of Thyroxine.
 - (b) Mechanism of blood coagulation.
 - (c) Composition and actions of pancreatic juice.
3. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Age changes in muscle function.
 - (b) Sensory nerve endings.
 - (c) Pupillary reflexes.
 - (d) Sarcomere.
 - (e) Functions of saliva.
 - (f) Functions of white blood cells.
 - (g) Hypoxia.

[PK 903]

SECTION B — (50 marks)

4. Write an essay on any ONE of the following : (1 × 14 = 14)
 - (a) Transport of Carbon-di-oxide in blood.
 - (b) Formation of urine.
5. Write brief answers on any TWO of the following : (2 × 8 = 16)
 - (a) Blood groups.
 - (b) Digestion of proteins.
 - (c) Regulation of heart rate.
6. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Functions of cerebral cortex.
 - (b) Arterial pulse.
 - (c) Actions of insulin.
 - (d) Oxygen debt.
 - (e) Functions of placenta.
 - (f) Spermatogenesis.
 - (g) Auditory pathway.

APRIL - 1997

[MP 903]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

**Second Semester
(New/Revised Regulations)
Paper II — PHYSIOLOGY
(Common to BPT and BOT)**

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (14)
 - (a) Hormones of Adrenal cortex and their actions.
 - (b) Mechanism of regulation of cardiac output.
2. Write brief answers on any TWO of the following : (2 × 8 = 16)
 - (a) Neural regulation of respiration.
 - (b) Digestion and absorption of fats.
 - (c) Glomerular filtration.
3. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Synapse
 - (b) Muscle spindle
 - (c) Blood groups
 - (d) Superficial reflexes
 - (e) Deglutition
 - (f) Eosinophils.
 - (g) Receptors in retina.

[MP 903]

SECTION B

4. Write an essay on any ONE of the following : (14)
 - (a) Mechanism of conduction of a nerve impulse along the nerve fibre.
 - (b) Erythropoiesis and the factors regulating it.
5. Write brief answers on any TWO of the following : (2 × 8 = 16)
 - (a) Events occurring during one cardiac cycle.
 - (b) Sensory receptors.
 - (c) Composition and functions of bile.
6. Write short notes on any FIVE of the following : (5 × 4 = 20)
 - (a) Platelets
 - (b) Vital capacity
 - (c) Hypoxia
 - (d) Juxta glomerular apparatus
 - (e) Ovulation
 - (f) Cerebellar functions
 - (g) Properties of cardiac muscle.

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[MS 903]

BACHELOR OF PHYSIOTHERAPY DEGREE EXAMINATION.

Second Semester

(Revised Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)
 - (a) Define blood pressure. Discuss in detail how the blood pressure is regulated.
 - (b) Describe the hormones of anterior pituitary gland and their actions.
2. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Neuromuscular junction.
 - (b) Functions of large intestine.
 - (c) Heart sounds.
 - (d) Hypoxia.
 - (e) Cerebrospinal fluid.
 - (f) E.C.G.
 - (g) Plasma proteins.
 - (h) Functions of hypothalamus.

[MS 903]

SECTION B

3. Write an essay on any ONE of the following : (20)
 - (a) What are the descending tracts in spinal cord? Trace the origin and describe the functions of pyramidal tract.
 - (b) What are the parts of a nephron? Describe the formation of urine.
4. Write short notes on any SIX : (6 × 5 = 30)
 - (a) Functions of neutrophils.
 - (b) Myopia and its correction.
 - (c) Isotonic contraction.
 - (d) Anticoagulants.
 - (e) Functions of middle ear.
 - (f) Hypothyroidism.
 - (g) Sarcomere.
 - (h) Pancreatic enzymes.

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[SV 903]

Sub. Code : 5117

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Second Semester

(Revised/Modified Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following :
(20 marks)

(a) Name the hormones of adrenal cortex. Describe the actions of cortisol.

(b) Describe the factors that determine the glomerular filtration.

2. Write short notes on any SIX : (6 × 5 = 30 marks)

(a) Heart sounds.

(b) Anemia.

(c) Peristalsis.

(d) Functions of skin

(e) EMG.

(f) Hypoxia.

(g) Oral contraceptives.

(h) Peptic ulcer.

SECTION B

3. Write an essay on any ONE of the following : (20 marks)

(a) Name the areas of cerebral cortex and give their functions.

(b) Name the clotting factors and describe the mechanism of coagulation of Blood.

4. Write short notes on any SIX : (6 × 5 = 30 marks)

(a) Dehydration.

(b) Corpus Luteum.

(c) Vital capacity.

(d) Neuro-muscular transmission.

(e) Refractive Errors of eye.

(f) Myasthenia gravis.

(g) Composition of extracellular fluid.

(h) Leucocytosis.

OCTOBER - 1998

[SM 903]

Sub. Code : 5117

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Second Semester

(Revised Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

(a) Define Erythropoiesis. Discuss in detail the different stages of Erythropoiesis and factors affecting it.

(b) Name the hormones of Adrenal cortex. Describe the actions of any one of the hormones.

2. Write short notes on any SIX : (6 × 5 = 30)

- (a) Blood groups
- (b) Tetany
- (c) Vital capacity
- (d) Heart sounds
- (e) Spermatogenesis
- (f) Functions of liver
- (g) Taste buds
- (h) Myosin.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) Draw the parts of Respiratory System and how Respiration is regulated.

(b) Define cardiac cycle. Describe the phases of cardiac cycle.

4. Write short notes on any SIX : (6 × 5 = 30)

- (a) Micturition
- (b) Hemisection of spinal cord
- (c) Nerve block
- (d) Cyanosis
- (e) Structure of inner ear
- (f) Functions of saliva
- (g) Leukocytes and their functions
- (h) Isotonic contraction.

APRIL - 1999

[SG 903]

Sub. Code : 5117

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Second Semester

(Revised Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

(a) Describe the different types of white blood cells and give their normal percentages. Give an account of their functions.

(b) Describe the actions and regulation of secretion of thyroxine.

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Haemoglobin

(b) Body fluid compartments

(c) Phases of gastric secretion

(d) Functions of saliva

(e) Vasomotor reflexes

(f) Nervous regulation of respiration

(h) Lung volumes and capacities.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) Using diagrams, describe the important areas of the cerebral cortex and give an account of their functions.

(b) Describe the effects of muscular exercise on the cardiovascular and respiratory systems. How are these effects brought about.

4. Write short notes on any SIX : (6 × 5 = 30)

(a) Acromegaly

(b) Functions of the cerebellum

(c) Refractive errors of the eye

(d) Degeneration and regeneration in peripheral nerves

(e) Functions of testosterone

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- (f) Maintenance of blood pressure**
 - (g) Formation of urine**
 - (h) Body temperature regulation.**
-

APRIL - 2000

[KB 904]

Sub. Code : 5117

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Semester

(Revised/Modified Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books

SECTION A

1. Write an essay on any ONE of the following (20)

(a) Describe the site, stages and factors regulating R.B.C. production.

(b) What is normal B.P.? How it is regulated in short term and long term?

2 Write short notes on any SIX (6 × 5 = 30)

(a) Hypoxia

(b) Erythroblastosis fetalis

c) Juxta glomerular apparatus

d) Lymph circulation

e) Contraception

f) Functions of placenta

(g) Cystometrogram

(h) Glial cells.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) Describe the innervation of bladder and how micturition is initiated. Describe the terms (i) Atonic bladder (ii) Uninhibited neurogenic bladder.

(b) How is an impulse conducted along a neuron? Mention the electrophysiology involved. Add a note on classification of neurons.

4. Write short notes on any SIX : (6 × 5 = 30)

(a) Platelet functions

(b) Taste pathway

(c) Errors of refraction in eye

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- (d) Muscle spindle
- (e) Sarcomere
- (f) Bohr effect
- (g) Acromegaly
- (h) Diabetes Incipitus.

APRIL - 2000

[KB 906]

Sub. Code : 5312

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Semester

(New Modified Regulations)

Paper II — PHYSIOLOGY

(Common to B.P.T. and B.O.T.)

Time : Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

(a) Describe the Nervous Regulation of Respiration.

(b) What is Erythropoiesis? what are the stages in it? What are the factors regulating it?

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Anticoagulants

(b) Posterior pituitary hormones

(c) Electrocardiogram

(d) Properties of cardiac muscle

(e) Sweat Glands

(f) Functions of white blood corpuscles

(g) Neuron

(h) Cerebellum

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) Mention the hormones secreted by Thyroid gland. Give an account of their actions on different systems of the body. What are the conditions caused by Hypo and Hyperthyroidisms.

(b) What is normal Blood pressure? How it is measured? What are the factors regulating it?

4. Write short notes on any SIX (6 × 5 = 30)

(a) Lung volumes

(b) Retina

(c) Functions of Saliva

(d) Nephron

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(e) ESR

(f) Hypoxia

(g) Lymph

(h) Ovarian hormones

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[KC 904]

Sub. Code : 5117

**BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.**

Second Semester

(Revised/Modified Regulations)

Paper II — PHYSIOLOGY

(Common to BPT and BOT)

Time : Three hours

Maximum : 100 marks

Answer Sections A and B in separate Answer books.

SECTION A

1. Write an essay on any one of the following : (20)

(a) Draw and label the structure of a synapse.

How synaptic transmission takes place?

(b) Explain the changes in cardio-vascular system and respiratory system during exercise.

2. Write briefly on any SIX : (6 × 5 = 30)

(a) Stretch reflex

(b) Balanced diet

(c) Aphasia

(d) Plasma proteins

(e) Clotting time

(f) Placenta

(g) Parathormone

(h) Tests for hearing.

SECTION B

3. Answer any ONE of the following : (20)

(a) Describe the excitation – contraction coupling of skeletal muscle.

(b) What is the normal blood volume? Enumerate the conditions in which it varies. How is it regulated?

4. Write briefly on any SIX : (6 × 5 = 30)

(a) Parkinsonism

(b) Accommodation of eye

(c) Heart rate

(d) Types of muscle contraction

(e) Cystometrogram

(f) Functions of stomach

(g) Babinski sign

(h) Oxygen poisoning.

[KC 904]

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[KC 906]

Sub. Code : 5312

BACHELOR OF PHYSIOTHERAPY DEGREE
EXAMINATION.

Second Semester

(New Modified Regulations)

Paper II — PHYSIOLOGY

(Common to B.P.T. and B.O.T.)

Time : Three hours

Maximum : 100 marks

Answer Section A and B in separate answer books.

SECTION A

1. Write an essay on any ONE of the following : (20)

(a) Describe the various types of White Blood Cells and their functions in detail What Total count and what is differential count?

Or

(b) How voluntary movement initiated and regulated?

2. Write short notes on any SIX : (6 × 5 = 30)

(a) Volumes and capacity in lung

(b) Rheobase and chronaxie

(c) Anticoagulant

(d) Functions of plasma proteins

(e) Properties of Cardiac Muscle

(f) Heart sounds

(g) Body Temperature regulation

(h) Digestion of lipids.

SECTION B

3. Write an essay on any ONE of the following : (20)

(a) How does an excitation of motor neuron lead to muscle contraction?

Or

(b) What are the hormones of anterior pituitary?

Discuss their functions.

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4. Write short notes on any SIX : (6 × 5 = 30)

(a) Isometric and Isotonic contractions

(b) Surfactant

(c) Succus entericus

(d) Cretinism

(e) Middle ear mechanics

(f) Functions of cerebellum

(g) Visual pathway

(h) Oxygen Debt.