

APRIL - 2001

[KD 704]

Sub. Code : 4164

FIRST B.Pharmacy DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A & Sec. B Section C : 30 marks

Answer Sections A and B in the same Answer Book.

Answer Section C in the answer sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Describe the mechanism of respiration. Write notes on internal respiration. (10 + 5)
2. Write elaborative notes on the Autonomic nervous system. (15)
3. With the help of a neat diagram, describe the female reproductive system and menstrual cycle. (8 + 7)
4. Draw and describe the structure of the thyroid gland and give its functions. (5 + 10)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. How are the blood groups classified?
6. Describe the composition and circulation of the cerebro spinal fluid.
7. Write notes on ECG.
8. Name the different types of salivary glands. Write down the composition and functions of saliva.
9. How is the blood pressure regulated?
10. Write notes on artificial respiration.
11. Describe the permanent method of family planning.
12. Draw and label the nephron.

NOVEMBER - 2001

[KE 704]

Sub. Code : 4164

FIRST B.Pharmacy DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in the same Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

- (a) Define blood coagulation. Write the steps involved in intrinsic and extrinsic pathway of blood coagulation. Name two anticoagulants of different mode of action. (1 + 4 + 3 + 2)

(b) Define Landsteiner's law. Tabulate agglutinogens and agglutinins of ABO and Rh system of blood groups. (2 + 3)
- Describe the mechanism of urine formation. (6 + 6 + 3)

NOVEMBER - 2001

3. (a) Define reflex action. Draw a labelled diagram of a simple reflex arc. How are reflexes classified clinically? Give an example for each type. (1 + 2½ + 5½)

(b) Mention four functions of hypothalamus and explain any one. (4 + 2)

4. (a) Describe briefly the anatomy of the heart and indicate the direction of circulation of blood through the heart. (4 + 2)

(b) Define cardiac cycle giving its normal duration. List the events of cardiac cycle and describe any one of them. (2 + 2½ + 4½)

SECTION B --- (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Write a brief note on regulation of arterial blood pressure. (5)

6. List the anterior pituitary hormones and mention the actions of any one of them. (2½ + 2½)

7. Define health. Add a note on indicators of health. (1 + 4)

8. Classify the joints giving an example for each type. (1½ + 1½ + 2)

9. Mention the different female contraceptive methods. Give the mode of action, merits and demerits of any one of them. (2½ + 2½)

10. Describe briefly the mechanism of respiration. (5)

11. Give the structure and functions of the skin. (2 + 3)

12. Write a note refractive errors of the eye. (5)

MARCH - 2002

[KG 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A & Sec. B Section C : 30 marks

Answer Sections A and B in the same answer Book.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Describe the structure of a nephron. Add a note on the mechanism of urine formation. (5 + 10)
2. With the help of a labelled diagram describe menstrual cycle. (15)
3. Define blood coagulation. Give normal clotting time. Represent schematically the intrinsic and extrinsic mechanisms of blood coagulation. Name two clotting disorders and cause for each. (1 + 1 + 10 + 3)
4. Explain briefly the normal and chemical regulation of respiration. (7 + 8)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

Each carry equal marks.

5. Draw and label a myelinated neuron. Add a note on saltatory conduction. (3 + 2)
6. Define arterial blood pressure. Give normal values. Explain briefly the role of baro receptors immediately after blood loss. (1 + 1 + 3)
7. Enumerate the functions of saliva. Explain any one. (3 + 2)
8. Name the primary tissues. Give the salient features of any one of them. (2 + 3)
9. Add a note on the basic principles of rural health and sanitation. (5)
10. Give the contents and functions of middle ear. (2 + 3)
11. Name the hormones of adrenal gland. Explain briefly any two actions of any one of them. (3 + 2)
12. Define reflex action. Draw and label the diagram of a reflex arc. (1 + 4)

SEPTEMBER - 2002

[KH 704]

Sub. Code : 4164

FIRST B.Pharmacy DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks

Two and a half hours Sec. A & Sec. B : 60 marks

for Sec. A and Sec. B Section C : 30 marks

Answer Sections A and B in the same Answer Book.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. (a) Give the normal concentration of different plasma proteins. Enumerate their functions and explain any one of them. (3 + 4 + 3)
(b) Write a note on the functions of platelets. (5)
2. (a) Draw a labelled diagram to show the histology of the thyroid gland. Write the steps involved in synthesis of thyroxine. (3 + 4)
(b) Briefly describe the changes taking place in the ovaries, during a 28 day menstrual cycle. (8)

SEPTEMBER - 2002

3. (a) What is the normal heart rate? Write a note on reflex control of heart rate. (1 + 7)

(b) List the factors influencing venous return to the heart. Explain how venous return controls cardiac output. (4 + 3)

4. (a) Describe the functions and control of salivary glands. (4 + 4)

(b) Write a short note on protein and fat digestion in the gut. (4 + 3)

SECTION B — (6 × 5 = 30 marks)

Answer any SIX questions.

All questions carry equal marks.

5. Name the posterior pituitary hormones. Describe the actions of any one of them. (1 + 4)

6. Write a note on balanced diet. Define the following terms : (3 + 2)

(a) Scurvy

(b) Kwashiorkor's syndrome.

7. Briefly describe the physiology of hearing. (5)

8. Name the functions of the testes. Explain any one of them. (2 + 3)

9. Write a note on prevention of contagious disease. (5)

10. Define Micturition. Explain the mechanism of micturition. (1 + 4)

11. Write briefly on functions of (a) Cerebellum (b) Medulla oblongata. (3 + 2)

12. Define or explain the following terms : (5)

(a) Hypoxia

(b) Myxoedema

(c) Gigantism

(d) Jaundice

(e) Anaemia.

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SECTION B — (6 × 5 = 30 marks)

FIRST B Pharm. DEGREE EXAMINATION,

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks
Two and a half hours Sec. A & Sec. B : 60 marks
for Sec. A and Sec. B Section C : 30 marks
Half an hour for Section C

Answer Sections A and B in the **SAME** Answer Sheet.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Draw a diagram to show the connection between hypothalamus and pituitary. Name the hormones of hypothalamus and pituitary. Describe briefly the actions of any one hormone of anterior pituitary. (3 + 6 + 6)
2. Draw a neat labelled diagram of eye. Add a note on refractory errors of the eye. (7 + 8)
3. Draw a diagram to show the parts of respiratory tract. Add a note on mechanisms of breathing. (7 + 8)
4. Define arterial blood pressure giving normal values. Write a note on the regulation of arterial blood pressure. (3 + 12)

Answer any SIX questions.

5. Write a note on family planning in females. (5)
6. Classify white blood cells. Mention the functions of WBC. Name four conditions for increase in WBC count. (1½ + 1½ + 2)
7. Draw and label the diagram of Neuro Muscular Junction (NMJ). Mention the steps of Neuro muscular transmission. (2½ + 2½)
8. Define and classify hypoxia giving an example for each. (1 + 4)
9. Define deglutition. Mention the stages. Add a note on the first stage of deglutition. (1 + 1½ + 2½)
10. Describe briefly the mechanism of micturition. (5)
11. Give the composition and functions of cerebrospinal fluid. (5)
12. Mention the functions of skin. Explain any one of them. (3 + 2)

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FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks

Two hours and forty minutes Sec. A & Sec. B : 70 marks
for Sec. A and Sec. B

Twenty minutes for Sec. C Section C : 20 marks

Answer Sections A and B in the **SAME** Answer Sheet.

Answer Section C in the Answer Sheet provided.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Discuss the anatomy of female reproductive system and Ovarian cycle.
2. Give an account of transport of O₂ and CO₂ in the blood. Add a note on chemical control of respiration.
3. Explain the outflow and functions of divisions of autonomic nervous system.

SECTION B — (8 × 5 = 40 marks)

Answer any EIGHT questions.

4. Describe various regulation of blood pressure.
5. Discuss the heart sound and its importance.
6. Describe the digestion in small intestine.
7. What is reflex action? Write its mechanism.
8. Discuss the insulin chemistry and function.
9. Describe different contraceptive methods used in females.
10. Explain the auditory and non-auditory functions of ear.
11. Discuss the importance of blood group determination.
12. Give the composition and functions of cerebro spinal fluid.
13. Write a note on prevention of contagious diseases.

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SECTION B — (8 × 5 = 40 marks)

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks

Sec. A & B : Two hours and Sec. A & B : 70 marks
forty minutes

MCQ : Twenty minutes MCQ : 20 marks

Answer Sections A and B in the **SAME** Answer Book.

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

1. Describe structure and functions of respiratory organs.
2. Describe various parts of alimentary canal and explain their role in digestion of food.
3. Describe anatomy and physiological functions of thyroid gland. Explain the consequences of hypothyroidism and hyperthyroidism.

Answer any EIGHT questions.

4. Describe blood coagulation process.
5. Explain functions of cerebellum.
6. Enumerate hormones of anterior pituitary gland and write their functions.
7. Explain in brief structure and functions of skin.
8. Write functions of plasma proteins.
9. Comment upon water borne diseases.
10. Explain in short functions of kidney.
11. Write a note on blood groups.
12. Write a note on family planning in females.
13. Give composition and functions of cerebrospinal fluid.

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SECTION B

FIRST B.Pharmacy DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

Time : Three hours Maximum : 90 marks

Sec. A & B : Two hours and forty minutes Sec. A & B : 70 marks

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer Sections A and B in the SAME Answer Book.

Answer M.C.Q. in the Answer Sheet provided.

SECTION A

Answer any TWO questions : (2 × 15 = 30)

1. Describe the factors responsible for maintenance of normal blood pressure. Write a note on hypertension. (7 + 8)
2. Explain the structure and functions of cerebrum. (7 + 8)
3. Explain the terms digestion and metabolism. Write a note on digestion and metabolism of carbohydrates. (5 + 10)
4. Describe the anatomical structure and physiological functions of anterior and posterior lobes of pituitary body. (10 + 5)

Answer any EIGHT questions : (8 × 5 = 40)

All questions carry equal marks.

5. Give classification of joints with examples. (2 + 3)
6. Write a note on principles of rural health and sanitation. (2 + 3)
7. In brief, explain the functions of spinal cord.
8. Explain the functions of gastric and intestinal glands. (3 + 2)
9. Write a note on cardiac cycle.
10. Describe in short the process of micturition.
11. Dwell upon the functions of lymph nodes.
12. Explain the role of kidneys in maintaining acid base balance.
13. Write a note on coagulation of blood.
14. Explain various methods of family planning in short.

FEBRUARY - 2005

[KM 704]

Sub. Code : 4164

SECTION B — (8 × 5 = 40 marks)

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

**Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION**

Time : Three hours Maximum : 90 marks

**Sec. A & B : Two hours and Sec. A & B : 70 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

SECTION A — (2 × 15 = 30 marks)

Answer any TWO questions.

Essay Questions :

1. Write a detailed note on structure and functions of cerebellum. (5 + 10)
2. With the help of a diagram, explain the structure and functions of nephron. Add a note on functions of kidney as a whole. (10 + 5)
3. Explain the physiological role of insulin. (15)

Answer any EIGHT questions.

All questions carry equal marks.

Short notes :

4. Write the steps involved in synthesis of thyroxine.
5. Write a note on coagulation of blood.
6. Explain various methods of family planning in short.
7. Write in short about functions of medulla oblongata.
8. Write a note on exocrine functions of pancreas.
9. Explain properties of cardiac muscle.
10. Write a note on external respiration.
11. Describe functions of plasma proteins.
12. Explain the role of lungs in maintaining acid–base balance.
13. (a) Gigantism (b) Jaundice.

AUGUST - 2005

[KN 704]

Sub. Code : 4164

II. Short Notes :

(8 × 5 = 40)

FIRST B.Pharm. DEGREE EXAMINATION.

Answer any EIGHT questions.

(Revised Regulations)

**Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION**

Time : Three hours

Maximum : 90 marks

**Theory : Two hours and
forty minutes**

Theory : 70 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay :

(2 × 15 = 30)

Answer any TWO questions.

- 1. Draw a neat labelled diagram of the internal structure of the heart. Discuss heart sounds in detail.**
- 2. Write the composition of urine. Discuss urine formation in detail.**
- 3. Discuss the physiology of respiration in detail.**

- 1. Write the steps involved in the ovulation process.**
- 2. Write the composition and functions of blood.**
- 3. Discuss the digestion and absorption of proteins.**
- 4. Write the functions of the hypothalamus.**
- 5. Discuss the regulation of blood pressure.**
- 6. Write the non hearing functions of the ear.**
- 7. Discuss the anatomy of the lungs with a neat labelled diagram.**
- 8. Write the endocrine functions of the pancreas.**
- 9. Write the family planning methods in detail.**
- 10. Write a note on balanced diet.**

[KN 737]

Sub. Code : 4228

FIRST B.Pharm. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours

Maximum : 90 marks

Theory : Two hours and
forty minutes

Theory : 70 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay :

(2 × 15 = 30)

Answer any TWO questions.

1. Explain in detail, the events that take place during 'Cardiac cycle'.
2. Write down the functions of adrenal gland, adding a note on hypo and hyper secretion of each hormone.
3. With the help of a neat, labelled figure, explain a 'Nephron'.

II. Short notes :

(8 × 5 = 40)

Answer any EIGHT questions

1. Discuss the mechanism of blood clotting.
2. With a neat diagram, explain ECG recording.

3. Discuss the functions of WBCs.

4. Discuss the process of digestion in the stomach.

5. Draw a neat labelled diagram of the ear. What is the non-hearing function of the ear?

6. Write a note on transport of Carbon-dioxide in the blood.

7. Classify joints with examples.

8. Discuss the functions of medulla oblongata.

9. Discuss the functions of testosterone.

10. Mention the hormones of anterior lobe of pituitary and mention their functions.

FEBRUARY - 2006

[KO 737]

Sub. Code : 4228

FIRST B.Pharm. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours

Maximum : 90 marks

Theory : Two hours and
forty minutes

Theory : 70 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay : (2 × 15 = 30)

Answer any TWO questions.

1. Define Blood Pressure. Discuss various factors that regulate Blood Pressure.
2. Describe the anatomy of the Thyroid gland. Write down its functions and explain what happens when there is hypo and hyper secretion.
3. Describe the mechanism of coagulation of blood. How do extrinsic and intrinsic pathways differ? What are the factors involved?

II. Short notes : (8 × 5 = 40)

Answer any EIGHT questions.

1. Discuss the basis of blood grouping.
2. What are the functions of kidney?
3. Discuss the exocrine function of pancreas.
4. Explain the different family planning methods.
5. What is reflex arc? Explain its working.
6. Explain the mechanics of respiration.
7. What is pulmonary circulation? What is its function?
8. Describe the process of 'Spermatogenesis'.
9. Describe the functions of the hormones secreted by 'Neurohypophysis'.
10. What are the functions of 'Cerebellum'?

AUGUST - 2006

[KP 737]

Sub. Code : 4228

FIRST B.Pharm. DEGREE EXAMINATION.

(Modified Regulations)

**Paper III — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION**

Time : Three hours Maximum : 90 marks

**Theory : Two hours and Theory : 70 marks
forty minutes**

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer any TWO questions.

- I. Long Essay : (2 × 20 = 40)**
- 1. Write notes on : (10 + 10 = 20)**
- (a) Compositions and functions of Blood
- (b) Cardiac cycle.
- 2. Explain in detail about mechanism of Respiration.
Add a note on lung volumes.**
- 3. Discuss in detail about physiology of urine
formation. Add a note on micturition.**
- 4. List the Endocrine glands with its hormones.
Write in detail about hormones of Anterior pituitary.**

II. Short notes : (6 × 5 = 30)

Answer any SIX questions.

- 1. Physiology of menstruation.**
- 2. Mechanism of vision and disorders of eye.**
- 3. Draw a neat labelled diagram of Brain. Write the
functions of cerebrum.**
- 4. Write briefly about Emergency treatment of
poisoning.**
- 5. Discuss the process of digestion in the small
intestine.**
- 6. Cranial nerves and its function.**
- 7. Spermatogenesis.**
- 8. Synovial joint and its disorder.**

FEBRUARY - 2007

[KQ 737]

Sub. Code : 4228

FIRST B.Pharm. DEGREE EXAMINATION.

(Modified Regulations)

Paper III – ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Time : Three hours Maximum : 90 marks

Theory : Two hours and Theory : 70 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

Answer any TWO questions.

I. Long Essay (Write any TWO): (2 × 20 = 40)

1. With a neat schematic representation, write the physiology of urine formation. Add a note on micturition.

2. Describe the anatomy of Thyroid Gland. Write down its functions and explain what happens when there is Hypo and Hyper Secretion?

3. Classify joints with example. Discuss briefly about synovial joint.

4. Discuss the mechanism involved in vision. Add a note on disorders of eye.

II. Short notes (write any SIX question) (6 × 5 = 30)

1. Electrophysiology of muscle.

2. Blood grouping and its significance.

3. Digestion and absorption in small Intestine.

4. Spermatogenesis.

5. AIDS.

6. Emergency treatment of shock.

7. Describe the ovarian cycle.

8. Describe the internal anatomy of heart.

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Sub. Code : 4228

(For candidates admitted from 2004-05 onwards)

FIRST B.Pharm. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Time : Three hours

Maximum : 90 marks

Theory : Two hours and
forty minutes

Theory : 70 marks

M.C.Q. : Twenty minutes

M.C.Q. : 20 marks

I. Long Essay (Write any TWO) : (2 × 15 = 30)

1. Define Blood Pressure. Discuss various factors that regulate Blood Pressure.
2. Draw a neat sketch of cross section of Eye and label the parts. Explain in detail the physiology of vision.
3. Describe the composition of pancreatic juice and digestive function of each component. How is pancreatic juice secretion regulated?

II. Short notes :

(8 × 5 = 40)

Answer any EIGHT questions.

1. What are the functions of Hypothalamus?
2. What are the functions of Testosterone?
3. Explain how carbohydrates are digested.
4. Describe the structure and functions of 'larynx'.
5. Write down the differences between the pulmonary and systematic circulation.
6. What is the basis of classification of blood groups? What do you about 'incompatibility' of blood groups?
7. Write the characteristic features of a sinovial joint.
8. Give the classification of connective tissue. What are its functions?
9. Explain the juxta-glomerular apparatus and its function?
10. List out the differences between the sympathetic and parasympathetic nerves.

February-2008

[KS 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Q.P. Code : 564164

Time : Three hours Maximum : 90 marks

Theory : Two hours and Theory : 70 marks
forty minutes

M.C.Q. : Twenty minutes M.C.Q. : 20 marks

I. Long Essay : (2 × 15 = 30)

Answer any TWO questions.

1. Define cardiac cycle. Describe the various events of cardiac cycle with pressure and volume changes.

2. What are the different stages of urine formation? Explain the role of glomerulus of nephron in the formation of urine.

3. Enlist the hormones secreted by pancreas. Explain the functions and regulation of secretion of Insulin.

4. Describe the different phases of menstrual cycle. What are the hormonal changes during the different stages of the cycle?

II. Short notes : (8 × 5 = 40)

Answer any EIGHT questions

(a) Explain about synovial joint with examples.

(b) Artificial respiration

(c) Reflex action

(d) Functions of the skin

(e) Basic principles of rural health and sanitation

(f) Exocrine functions of the pancreas

(g) Functions of cerebellum

(h) Classify different types of anemia

(i) Functions of platelet

(j) Functions of hypothalamus.

August 2008

[KT 704]

Sub. Code : 4164

FIRST B.Pharm. DEGREE EXAMINATION.

(Revised Regulations)

Paper IV — ANATOMY, PHYSIOLOGY AND
HEALTH EDUCATION

Q.P. Code : 564164

Time : Three hours

Maximum : 90 marks

I. Long Essay : (2 × 20 = 40)

Answer any TWO questions.

1. Draw a labelled diagram of a nephron and describe the mechanism of urine formation. Add a note on Medullary Nephrons. (4 + 12 + 4)

2. Describe the anatomy and histology of thyroid gland, and describe the physiology of the hormones secreted by the gland. Add a note on cretinism. (4 + 14 + 2)

3. Enumerate the phases of menstrual cycle. Describe the changes in each phase and give the hormonal basis for each phase. (2 + 18)

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II. Short Notes : (8 × 5 = 40)

Answer any EIGHT questions.

1. Describe the conducting system of the heart.
2. Name the plasma proteins and describe their function.
3. Baroreceptors and its function.
4. Hering-Breuer Reflex.
5. Juxta-glomerular Apparatus.
6. Heart sounds.
7. Composition and functions of Gastric juice.
8. Synovial joint.
9. Fat soluble vitamins and their importance in the diet.
10. Draw and label a cross section of Eye. Add a note on the functions of Rods and cones.

III. Short Answer : (5 × 2 = 10)

Answer any FIVE questions.

1. Types of Leucocytes and their functions.
2. What are Anticoagulants? Give examples.

3. Name the lobes of cerebrum and its function.

4. Bohr effect and the factors responsible for it.

5. Functions of skin.

6. Name the posterior pituitary hormones and write the functions of any one.

7. What is the cause for Diabetes Mellitus and Diabetes Insipidus?

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[KT 737]

Sub. Code : 4228

(For Candidates admitted from 2004–05 onwards)

FIRST B.Pharm. DEGREE EXAMINATION.

(Modified Regulations)

Paper III — ANATOMY, PHYSIOLOGY AND HEALTH
EDUCATION

Q.P. Code : 564228

Time : Three hours

Maximum : 90 marks

I. Long Essay : (2 × 20 = 40)

Answer any TWO questions.

1. (a) Draw a neat diagram of cross section of Eye and label the parts. Explain in detail the physiology of vision. (10 + 5)

(b) Functions of Skin. (5)

2. (a) Physiology of urine formation. (10)

(b) Define Blood Pressure. Write about various factors that regulate Blood Pressure. (10)

August 2008

3. (a) Composition and function of Blood. (10)
(b) Spermatogenesis. (10)

II. Short notes : (8 × 5 = 40)

Answer any EIGHT questions.

1. Briefly describe the physiology of hearing.
2. Explain Mechanism of Respiration.
3. What is Succus Entericus? Write its function. (2 + 3)
4. Write the endocrine function of Pancreas.
5. Mention the different female contraceptive method. Give the mode of action, Merits and Demerits of any one of them. (2½ + 2½)
6. Describe the blood coagulation.
7. Define reflex action. Draw and label the diagram of a reflex arc. (1 + 4)
8. Classify the joints with examples.
9. Emergency treatment of shock.
10. Note on Erythro poiesis.

III. Short Answers : (5 × 2 = 10)

Answer any FIVE questions.

1. Explain the following :
 - (a) Oliguria
 - (b) Anuria.
2. Define Vital Capacity.
3. Write the Glucocorticoides secreted from Adrenal cortex.
4. Write about Bones and sutures present in skull.
5. Note on Organ's of Corts.
6. Write the parts of conductive system of heart
7. Write the types of valves in the heart. Where it is present.

February 2009

[KU 704]

Sub. Code: 4164

FIRST B.PHARM. DEGREE EXAMINATION

(ReRevised Regulations)

Candidates Admitted upto 2003-04

Paper IV – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

Q.P. Code : 564164

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO questions (2 x 20 = 40)

1. a) Discuss the anatomy of respiratory organs with proper diagram. (10)
b) Discuss in detail about the mechanism of respiration. (10)
2. a) Write in detail anatomy of pituitary gland and describe its function. (10)
b) Discuss in detail about various stages of menstrual cycle. What are hormones influencing menstruation. (7+3)
3. a) Draw a neat diagram of eye. Discuss the physiology of vision.
b) Add a detail note on various refractory errors and its corrections.

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Aneamia.
2. Cerebro spinal fluid and its function.
3. Parasympathetic innervation and its function.
4. Cell Mediated Immunity.
5. Scapula.
6. Neuro Muscular junction.
7. Mechanism of urine formation.
8. Family planning methods.
9. Malarial infection and its prevention.
10. Balanced diet.

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Hematopoiesis.
2. Active transport.
3. Enterocytes.
4. Synapse.
5. Glomerular Filtration Rate (GAR).
6. Vital Capacity.
7. Circumduction.

August 2009

[KV 704]

Sub. Code: 4164

**FIRST B.PHARM. DEGREE EXAMINATION
(Revised Regulations)**

Candidates Admitted upto 2003-04

Paper IV – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

Q.P. Code : 564164

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO questions (2 x 20 = 40)

1. a) With a neat diagram explain the structure of Heart.
b) Explain the conduction system of Heart.
2. a) Describe the location and anatomical features of the stomach.
b) Discuss the various phases that regulate gastric secretion.
3. Describe the anatomy and histology of adrenal gland and describe the physiology of hormones secreted by adrenal gland. Add a note on aldosteronism.

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Write the mechanism of blood coagulation.
2. Draw and label the parts of nephron.
3. Discuss the functions of skin.
4. Write notes on spermatogenesis.
5. Write the mode of transmission and prevention of worm infestation.
6. Write notes on autonomic nervous system.
7. Define and classify bones with example.
8. Write briefly on the mechanism of respiration.
9. Define the term family planning. Discuss the various temporary methods of family planning.
10. Write the composition and functions of blood.

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Define vital capacity.
2. Write the functions of pancreas.
3. List the bones of skull.
4. Name the fat soluble vitamins and write their functions.
5. Define the term, blood pressure and hypertension.
6. List the hormones of pituitary gland.
7. Write the functions of Hypothalamus.

February 2010

[KW 704]

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Paper IV – ANATOMY, PHYSIOLOGY AND HEALTH EDUCATION

Q.P. Code : 564164

Time : Three hours

Maximum : 90 marks

I. Essay Questions : Answer any TWO questions (2 x 20 = 40)

1. Write the composition and functions of blood. Discuss the mechanism of blood coagulation. Write notes on anaemia.
2. Draw and label the parts of respiratory system. Discuss the mechanism of respiration.
3. Discuss the principle anatomical structures of the eye with a neat diagram. Write the physiology of vision.

II. Write Short Notes : Answer any EIGHT questions (8 x 5 = 40)

1. Write briefly on (IUCD) Intra Uterine Contraceptive Devices.
2. Define and classify joints. Add a note on ball and socket joint.
3. Write notes on heart sounds.
4. Discuss the anatomy and physiological functions of liver.
5. Define and outline the event of menstruation.
6. List the functions of cerebrospinal fluid.
7. Describe the physiology of hearing.
8. Write notes on Villi.
9. Discuss the regulation of thyroid hormone secretion.
10. Describe the mechanism of micturition.

III. Short Answers: Answer any FIVE questions (5 x 2 = 10)

1. Write the functions of saliva.
2. Define cardiac output.
3. Write the preventive measures of tuberculosis.
4. Define diabetes mellitus.
5. Write the functions of bones.
6. What are plasma proteins? Give example.
7. Write the use of spirometer.
