**[KM 126]** **Sub. Code : 2024**

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Physiology

Paper IV — HISTORY OF MEDICINE, RECENT ADVANCES IN CLINICAL PHYSIOLOGY, ENDOCRINOLOGY AND REPRODUCTIVE SYSTEMS

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay : (2 × 15 = 30)

(1) Describe the historical developments in the understanding of cardiovascular physiology.

(2) Describe the physiological role of the pineal gland.

II. Write short notes on : (10 × 5 = 50)

(a) Chromosomal abberations

(b) Somatostatin.

(c) Alzheimer's disease.

(d) Obesity : types, causes.

(e) Pathophysiology of :

(i) Cushing's disease

(ii) Adrenogenital syndrome .

(f) Defibrillators.

(g) Mechanism of ADH action.

(h) Thermoregulation in newborns.

(i) Tropoblastic functions.

(j) Galactopoiesis.

---

**[KP 126]** **Sub. Code : 2024**

M.D. DEGREE EXAMINATION.

Branch V — Physiology

Paper IV — HISTORY OF MEDICINE, RECENT ADVANCES IN CLINICAL PHYSIOLOGY, ENDOCRINOLOGY AND REPRODUCTIVE SYSTEMS

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Discuss the contribution of following physiologists,

(a) Sherrington.

(b) Einthoven.

(c) Banting and Best. (20)

(2) Describe the endocrine basis of lactation and suppression of lactation. (15)

(3) Discuss about physiological dysjunction arising from Genetic disorders. (15)

II. Write Short notes on : (6 × 5 = 30)

(a) Lefitins.

(b) Wolff chaikoff effect.

(c) Gold blatt kidneys.

(d) Recombinant DNA technology.

(e) Adrenogenital syndrome.

(f) Combined pill.

---

**[KQ 123]** **Sub. Code : 2023**

M.D. DEGREE EXAMINATION.

Branch V — Physiology

HISTORY OF MEDICINE, RECENT ADVANCES IN CLINICAL PHYSIOLOGY ENDOCRINOLOGY AND REPRODUCTIVE SYSTEMS

Common to

Paper IV — (Old/New/Revised Regulations)

(Candidates admitted from 1988–89 onwards)

and

Paper — IV (for candidates admitted from 2004–2005 onwards)

Time : Three hours — Maximum : 100 marks

Theory : Two hours and forty minutes — Theory : 80 marks

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

Answer ALL questions.

Draw suitable diagrams wherever necessary.

I. Essay :

(1) Discuss various functions of glucocorticoids. Add a note on Cushing's syndrome. (20)

(2) Describe the role of hypothalamic-ovarian axis in regulation of reproductive functions in females. (15)

(3) Discuss the role of various evoked potentials in the diagnosis neuromuscular dysfunctions. (15)

II. Write short notes on : (6 × 5 = 30)

(a) History of invention of ECG

(b) G proteins

(c) Voltage clamp technique

(d) Apoptosis

(e) Diabetes inspidus

(f) Insulin-glucagon ratio.

---

# MARCH 2008

**[KS 124]** **Sub. Code : 2021**

M.D. DEGREE EXAMINATION.

Branch V — Physiology

HISTORY OF MEDICINE, RECENT ADVANCES IN CLINICAL PHYSIOLOGY ENDOCRINOLOGY AND REPRODUCTIVE SYSTEMS

(Common to all candidates)

## Q.P. Code : 202021

Time : Three hours Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

I. Essay questions : ($2 \times 20 = 40$)

1. Define a Hormone. Classify and describe the mechanisms of action of each class.
2. Discuss the contribution of the following physiologists.
   (a) B.K. Anand
   (b) J. Paintal
   (c) Camillo Golgi
   (d) W. Einthoven.

II. Write Short notes on : ($10 \times 6 = 60$)

1. Role of Mitochondria in Apoptosis.
2. Echo cardiography.
3. Sex determination-Role of chromosomes and hormones.
4. Oral contraceptive pills.
5. Glucose transpoters.
6. Synthesis of thyroid hormone.
7. Bone growth.
8. Phyto oestrogens.
9. Plasma lipid.
10. Heat shock proteins.

**September 2008**

**[KT 124]** **Sub. Code: 2021**

**M.D. DEGREE EXAMINATION**

**Branch V – Physiology**

**Paper IV – HISTORY OF MEDICINE, RECENT ADVANCES IN CLINICAL PHYSIOLOGY, ENDOCRINOLOGY AND REPRODUCTIVE SYSTEMS**

**(Common to all candidates)**

***Q.P. Code : 202021***

**Time : Three hours** **Maximum : 100 marks**

**Draw suitable diagram wherever necessary.**
**Answer ALL questions.**

**I. Essay questions :** **(2 X 20 = 40)**

1. Discuss in detail the hormones involved in calcium metabolism.

2. Discuss the contribution of the following physiologists.
    a. Landsteiner.
    b. Purleinje.
    c. Banting and Best.
    d. Korotkov.

**II. Write short notes on :** **(10 X 6 = 60)**

1. Addison's disease.
2. Male infertility.
3. Glucose transporters.
4. Apoptosis.
5. Milk ejection reflex.
6. Cushing's syndrome.
7. Alzheimer's disease.
8. Sertoli cells.
9. Voltage clamp technique.
10. Tests for ovulation.

———————