

April-2001

[KD 126]

Sub. Code : 2024

M.D. DEGREE EXAMINATION.

Branch V — Physiology

(Revised Regulations)

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

Time : Three hours (MAR - 2001) Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. Discuss the physiology of growth and its disorders. (25)
 2. Describe the physiology of coitus and add a note on Impotency. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Addison's disease.
 - (b) Muller's Doctrine of Nerve energies.
 - (c) Chiari — Frommel Syndrome.
 - (d) Foeto-placental unit.
 - (e) Insulin receptors.
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November-2001

[KE 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 SYSTEM

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. Discuss various types of neuro-endocrine regulations. (25)
 2. Discuss in detail the dynamic interrelationship between hypothalamus, anterior pituitary and ovary. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Pineal gland.
 - (b) J.E. Purkinje.
 - (c) Evoked potentials.
 - (d) Foeto-placental unit.
 - (e) C-peptide.
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March-2002

[KG 126]

Sub. Code : 2024

M.D. DEGREE EXAMINATION.

(Revised Regulations)

Branch V — Physiology

Paper IV — HISTORY OF MEDICINE, RECENT
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ENDOCRINOLOGY AND REPRODUCTIVE SYSTEM

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. Write an essay on the mechanisms of action of hormones on their target cells. (25)
 2. Describe the chemistry, biosynthesis, mechanism of action and functions of oestrogens in humans. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Somatostatin.
 - (b) Factors controlling insulin release.
 - (c) Puberty.
 - (d) Alzheimer's disease.
 - (e) Pavlov.
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September-2002

[KH 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 SYSTEM

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. Describe synthesis, storage, release, transportation and metabolism of Triiodothyronine and Thyroxine. (25)
 2. Describe pituitary and gonadal controls of various events of uterine and vaginal cycles. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Somatomedins
 - (b) Spermatogenesis
 - (c) Positron emission tomography
 - (d) Acquired immune deficiency syndrome
 - (e) Claude Bernard.
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[KI 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 SYSTEM**

Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. Discuss the organization and functions of the placenta. What is its influence in fetal and maternal physiology? (25)
 2. Discuss the changes in body mechanisms during thyroid dysfunction and the methods of investigating them. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) E.H. Starling
 - (b) Pathophysiology of obesity
 - (c) Permissive action
 - (d) Paracrine secretion
 - (e) Pseudohermaphroditism.
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[KJ 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 SYSTEM

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

M.C.Q. must be answered **SEPARATELY** on the
answer sheet provided as per the instructions on
the first page.

Answer ALL questions.

Draw suitable diagrams wherever necessary.

1. Discuss the recent advances in various
contraceptive methods and explain the physiological
basis of their action. (15)

2. Explain the actions and mechanism of action of
Insulin. Discuss in detail recent advances in the
treatment of Diabetes Mellitus and their physiologic
basis. (15)

3. Write short notes on :

(10 × 5 = 50)

- (a) Pituitary Gonadal axis in males.
- (b) Milk ejection reflex.
- (c) Actions of Aldosterone.
- (d) Acromegaly and Gigantism.
- (e) Placental hormones.
- (f) Actions of Glucocorticoids.
- (g) Pathophysiology of ageing.
- (h) E.H. Starling.
- (i) Permissive action.
- (j) Pathophysiology of obesity.

