

April-1997

MP 127

M.D. DEGREE EXAMINATION

Branch V - Physiology

(Revised Regulations)

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

Time: Three hours

Max.marks:100

Answer All Questions

1. Describe the hypophysiotropic hormones, their structure, release, functions and regulation. (25)
2. Discuss the role of glucose transporters and insulin in the transport of glucose across the cell membrane. (25)
3. Write briefly on:
 - (a) E.H.Starling
 - (b) Calbindin -D Proteins
 - (c) Regulation of spermatogenesis
 - (d) Genes on Y chromosome
 - (e) Endothelins.

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Answer All Questions

1. What are the secretions of posterior pituitary gland? What are the physiological actions of posterior pituitary hormones? How are these hormonal secretions regulated?
(25)
2. Classify anaemia. Describe the physiological principles of management of various anaemias.
(25)
3. Write briefly on:
 - (a) Pavlov
 - (b) Physiological role of nitric oxide
 - (c) Role of male sex hormones in foetal life
 - (d) Circadian rhythm
 - (e) Dietary requirement of a pregnant woman.

(5x10=50)

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Answer All Questions

1. A 40 year old man presents with a thyroid swelling. What investigative procedures could be done to assess the functional status of this thyroid? How will you interpret the results? (25)
2. With experimental and clinical evidences describe the hormonal interactions leading to the initiation and maintenance of lactation. (25)
3. Write briefly on:
 - (a) Cell membrane receptors
 - (b) Applications of recombinant DNA technology
 - (c) Ivan Pavlov
 - (d) Importance of hormonal responses in stress
 - (e) Atrial natriuretic hormone.

(5x10=50)

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[SG 126]

Sub. Code : 2024

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the Physiological Principles of various methods, their advantages and disadvantages, used in family Planning. (25)
 2. Give in detail the physiological actions of insulin and explain how the counter-regulatory hormones oppose these actions. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Radio immuno assay.
 - (b) Galactopoiesis.
 - (c) Starling's Hypothesis.
 - (d) Ejaculatory fluid.
 - (e) Catecholamines.
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October-1999

[KA 126]

Sub. Code : 2024

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Time : Three hours ,

Maximum : 100 marks

Answer ALL questions.

1. How is the secretion from anterior pituitary controlled by hypothalamus? Give the clinical implications of this regulation. Mention the important milestones in the discovery of the above regulatory mechanism. (25)
 2. Discuss how conditions most favourable for fertilisation and implantation are made available in the female reproductive system coinciding with ovulation. (25)
 3. Write briefly on : (5 × 10 = 50)
 - (a) Physiological basis of the therapeutic uses of cortisol
 - (b) Role of sertoli cells in testicular function
 - (c) Magnetic Resonance imaging
 - (d) Granulocyte colony stimulating factors
 - (e) Secretory functions of vascular endothelium.
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April-2000

[KB 126]

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

Draw diagrams wherever necessary.

1. Enumerate the hormones that affect blood glucose level. Discuss the patho-physiology and management of Diabetes Mellitus with physiological Basis for it. (25)
2. Describe the Regulation and Abnormalities of Testicular Function. (25)
3. Write briefly on : (5 × 10 = 50)
 - (a) Precocious puberty in females
 - (b) Starling's law
 - (c) Effect of lactation on menstrual cycle
 - (d) Adrenogenital syndrome
 - (e) Hashimoto's thyroiditis.

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[KC 126]

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Time : Three hours

Maximum : 100 marks

Answer ALL questions.

1. Describe the role of hormones in the growth of an individual. (25)
 2. Describe the endometrial and endocervical cycles and explain their hormonal basis. (25)
 3. Explain briefly : (5 × 10 = 50)
 - (a) Immunological test for pregnancy
 - (b) Basis of hypertension in pheochromocytomas
 - (c) Autoimmune diseases
 - (d) Uses of cardiac catheterization
 - (e) Significance of diurnal variations in hormones.
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