

[LB 124]

OCTOBER 2012

Sub. Code: 2021

M.D. DEGREE EXAMINATION

BRANCH V – PHYSIOLOGY

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

Q.P. Code : 202021

Time : 3 hours  
(180 Min)

Maximum : 100 marks

Answer ALL questions in the same order.

	Pages (Max.)	Time (Max.)	Marks (Max.)
<b>I. Essay:</b>			
1. Discuss the recent advances in the field of cardiac physiology.	9	15	10
2. Discuss the neuro endocrine regulation.	9	15	10
<b>II. Short Questions:</b>			
1. Discuss the pathophysiology of obesity.	3	8	5
2. Describe the major disease of the thyroid & their signs and Symptoms.	3	8	5
3. What is the physiological effect of somatostatin in the pancreas.	3	8	5
4. Discuss the homeostasis of ECF through endocrine control.	3	8	5
5. What is effect of glucocorticoid, growth hormone and growth factor on calcium metabolism.	3	8	5
6. Discuss the hormonal replacement therapy	3	8	5
7. Discuss the seminal analysis and clinical importance.	3	8	5
8. Name the placental hormone and its functions.	3	8	5
<b>III. Reasoning Out:</b>			
1. Discuss the administration of $\beta$ adrenergic blocker causes dramatic remission of many of the symptoms of thyrotoxicosis.	5	10	5
2. Why children with cretinism have short stature and mental Insufficiency	5	10	5
3. "Female hypothalamus and the male hypothalamus" What are the differences between the hypothalamus of the 2 sexes and how these differences are produced ?	5	10	5
4. Discuss ketosis is more common and severe in type 1 than type 2 diabetes	5	10	5
<b>IV. Very Short Answers :</b>			
1. What is Wolff-Chaikoff effect?	1	4	2
2. What is aldosterone escape?	1	4	2
3. Define foetal graft	1	4	2
4. Functions of Streptokinase.	1	4	2
5. What is PTH $r^P$ & its functions	1	4	2
6. What is the function of acrosome ?	1	4	2
7. What is Barr body?	1	4	2
8. How is Iodine pump in thyroxin synthesis inhibited?	1	4	2
9. What is cushingoid state?	1	4	2
10. Name the glucose transporters.	1	4	2

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