

[LN 502]

AUGUST 2018

Sub.Code :5053

M.B.B.S. DEGREE EXAMINATION
FIRST YEAR
PAPER III – PHYSIOLOGY INCLUDING BIO-PHYSICS - I

*Q.P. Code: 525053***Time: Three hours****Maximum : 50 Marks****Answer All Questions****I. Essay:****(1 x 10 = 10)**

1. Explain in detail synthesis, secretion and functions of thyroid hormone. Add a note on cretinism.

II. Write notes on:**(5 x 4 = 20)**

1. T Lymphocyte.
2. Properties of smooth muscle.
3. Counter current system in kidney.
4. Composition and functions of pancreatic juice.
5. Female contraception.

III. Short answers on:**(10 x 2 = 20)**

1. Neuro muscular blockers.
2. Na^+K^+ ATPase pump.
3. Endocytosis.
4. Fibrinolytic agents.
5. Crossmatching.
6. Secretin.
7. Enteric nervous system.
8. Mention two substances used for measuring total body water and ECF volume.
9. Loop diuretics.
10. Neuro endocrine reflex.

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NOVEMBER 2018

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*Q.P. Code: 525053***Time: Three hours****Maximum : 50 Marks****Answer All Questions****I. Essay:** (1 x 10 = 10)

1. Define hemostasis. Describe the various stages involved in coagulation process.

II. Write notes on: (5 x 4 = 20)

1. Passive transport.
2. Gastric emptying.
3. Peculiarities of renal blood flow.
4. Second messengers.
5. Hyper secretion of growth hormone.

III. Short answers on: (10 x 2 = 20)

1. Mechanism of action of botulinum toxin and the basis of botox injections.
2. What is steatorrhea?
3. List out four functions of liver.
4. Draw schematically how HCL is formed.
5. What are renal threshold and tubular maximum for glucose?
6. Give an example of neuroendocrine reflex. Briefly outline its pathway.
7. Name four hormones which increase the blood glucose level. What is the mechanism of action of one these hormones?
8. Compare the actions of adrenaline and noradrenaline on heart and blood vessels.
9. Explain briefly the mechanism of action of contraceptive pill.
10. How does temperature influence spermatogenesis?
