

AU-334

M.Sc. (Part—I) Semester—II (CBCS) Examination

BIOCHEMISTRY

(Endocrinology and Neurochemistry)

Paper—VI

Time : Three Hours]

[Maximum Marks : 80

- Note :—** (1) All questions are compulsory and carry equal marks.
(2) Draw well labelled diagrams wherever necessary.

1. (a) What is diabetes mellitus ? Describe the classification of metabolism. 5
- (b) Discuss metabolism in diabetes mellitus. 5
- (c) Write a note on GTT with experimental details. 6

OR

Explain the following :

- (p) Radio immunoassay 6
 - (q) Insulin 5
 - (r) Experimental diabetes. 5
2. Describe the following :
 - (a) Hypothyroidism 5
 - (b) Iodine metabolism 6
 - (c) Evaluation test of thyroid function. 5

OR

Write in brief about :

- (p) Basal metabolic rate 6
 - (q) Calcium metabolism 5
 - (r) Thyroid gland. 5
3. Describe in detail birth control methods. 16

OR

- What is fertilization ? Describe the mechanism in detail. 16

4. Discuss the following :
- (a) Structure of Neuron 6
 - (b) Mechanism of resting potential 5
 - (c) Presynaptic events at neuro-muscular junction. 5

OR

- (p) Mechanism of conduction across synapse 6
 - (q) Action potential 5
 - (r) Myelin sheath. 5
5. Describe chemistry, synthesis, storage and mechanism of action of acetylcholine as a neurotransmitter. 16

OR

What are neuropeptides ? Explain the different examples in detail. 16