

AQ-918

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

BIOCHEMISTRY

(Endocrinology and Neurochemistry)

Paper—VI

Time : Three Hours]

[Maximum Marks : 80

Note :— ALL questions are compulsory and carry equal marks.

1. Explain the following :

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|-----------------------------|---|
| (a) Role of insulin. | 5 |
| (b) Hypoglycemic. | 5 |
| (c) Glucose tolerance test. | 6 |

OR

- | | |
|--------------------------------------|---|
| (p) Juvenile diabetes. | 5 |
| (q) Causes and symptoms of polyuria. | 5 |
| (r) Radio immune assay. | 6 |

2. Discuss the following :

- | | |
|-------------------------------------|---|
| (a) Iodine metabolism. | 6 |
| (b) Myxoedema. | 5 |
| (c) Evaluation of Thyroid function. | 5 |

OR

- (p) Basal Metabolic Rate. 6
(q) Calcium metabolism. 5
(r) Hyperthyroidism. 5
3. Describe the mechanism and various methods of birth control. 16

OR

Describe the mechanism of fertilization. Discuss the structure of sperm and Ova. 16

4. Discuss the following :
- (a) Mechanism of action potential. 5
(b) Myelin sheath. 5
(c) Impulse conduction routes. 6

OR

- (p) Structure of Neuron. 5
(q) EEG. 5
(r) Mechanism of conduction across synapses. 6
5. What are Neuropeptides ? Discuss in detail the classification and a few examples of neuropeptides. 16

OR

Describe in short chemistry, synthesis, storage and release of nervous neurotransmitters. 16