

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BPP-1100

M.Sc. (Previous) Examination, 2022

BIOTECHNOLOGY

Paper - I

(Biochemistry and Enzyme Technology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Define Gluconeogenesis.
- (ii) What are Gibberellins ?
- (iii) Describe Sulphide Bond.

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- (iv) Write name of members of Histidine family.
- (v) What is Vitaminosis ?
- (vi) What is Multizyme complex ?
- (vii) Which hormone is called Happy-Hormone ?
- (viii) Significance of Vitamin B₁₂.
- (ix) What are Glycoproteins ?
- (x) Cushing-syndrome.

Section-B

2. Briefly describe the Glycolysis.

Or

Describe the classification of lipids.

3. Describe TCA cycle.

Or

Write on different structure of Carbohydrate.

4. Function of ovarian hormones.

Or

Write short note on Auxins.

5. Describe the structure of B-DNA.

Or

Synthesis of Pyrimidines.

6. Describe mechanism of Hormone action.

Or

Differentiate between purines and pyrimidines.

Section-C

7. Describe in detail endocrine secretion of Pituitary.

8. Write an account of β -oxidation of fatty acids.
9. Write an essay on properties, classification and mechanism of enzyme-action.
10. Describe structure, properties and confirmation of proteins.
11. Write short notes on the following :
 - (a) Islets of Langerhans
 - (b) Pineal