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UG/1st Sem/BOT(H)/T/19

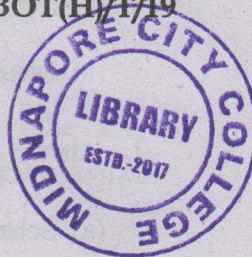
2019

B.Sc.

1st Semester Examination

BOTANY (Honours)

Paper - C 2-T



Full Marks : 40

Time : 2 Hours

The figures in the margin indicate full marks.

*Candidates are required to give their answers
in their own words as far as practicable.*

Illustrate the answers wherever necessary.

1. Answer any five of the following : $2 \times 5 = 10$

(a) Write the significance of chemical bonds?

(b) Define Oligosaccharides. Cite an example.

(c) What is Golgi apparatus?

(d) What is buffer solution?

(e) Write the Michaelis-Menten equation.

(f) Define endosymbiotic theory.

[Turn Over]

(2)

(g) What does it mean by induced fit theory?

(h) Mention the function of protein kinase.

2. Answer any *four* of the following : $5 \times 4 = 20$

(a) Schematically represent the triglyceride structure and state its function. What is ester? $2+1+2$

(b) Write the chemical structure of cell wall and mention function of plant cell wall. $2\frac{1}{2}+2\frac{1}{2}$

(c) Describe the regulation of cell-cycle check point.
5

(d) Write a note on the structure and function of nucleotides. $3+2$

(e) Briefly describe the fluid mosaic model of plasma membrane. 5

(f) What is ER? Mention its types and function?
 $2+1+2$

3. Answer any *one* of the following : $10 \times 1 = 10$

(a) (i) Describe in brief the different types of membrane transport found in living organism.
 $6+4$

(3)

(ii) Write the molecular organisation of chromatine.

(b) Classify enzymes with examples on the basis of modern concept. What are allosteric enzymes?

$8+2$
