

T.Y.B.SC. SEM – V (CBCS - 2016 Course) : SUMMER - 2019
SUBJECT : BOTANY-MOLECULAR BIOLOGY & BIOCHEMISTRY

Day Saturday
Date 27/04/2019

S-2019-0877

Time : 11.00 A.M. To 02.00 P.M.
Max. Marks : 60

N.B.

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
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Q.1 Attempt any **TWO** of the following: **(12)**

- a) Explain DNA fingerprinting.
- b) Explain restriction endonucleases.
- c) What is enzymes? Give its properties.

Q.2 Attempt any **TWO** of the following: **(12)**

- a) Explain properties of lipids.
- b) Comment on polymerase chain reaction.
- c) Describe functions of enzymes.

Q.3 Attempt any **TWO** of the following: **(12)**

- a) Explain DNA replication.
- b) Define and explain structure of amino acids.
- c) Define proteins and explain its structure.

Q.4 Attempt any **THREE** of the following: **(12)**

- a) Give lipid classification and its function.
- b) Write in short polysaccharides.
- c) Explain the role of Agrobacterium in genetic engineering.
- d) Describe structure of RNA.

Q.5 Attempt any **FOUR** of the following: **(12)**

- a) Give various types of nucleotides.
- b) Explain transgenic plant with suitable example.
- c) Write note on Lock-Key hypothesis.
- d) Give the importance of proteins.
- e) Give functions of oligosaccharides.

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