



বিদ্যাসাগর বিশ্ববিদ্যালয়
VIDYASAGAR UNIVERSITY
Question Paper

B.Sc. Honours Examinations 2022

(Under CBCS Pattern)

Semester - IV

Subject : BOTANY

Paper : C 8-T

Molecular Biology

Full Marks : 40

Time : 2 Hours

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

The figures in the margin indicate full marks.

1. Answer any **four** of the following questions :

5×4=20

- (a) Differentiate B-DNA and Z-DNA.
- (b) State the significance of gene silencing.
- (c) Why RNA primer is mandatory for DNA replication?
- (d) Explain Cot curve with suitable illustration.
- (e) How does Griffith's experiment prove DNA as genetic material?
- (f) State main features of genetic code with exception.

P.T.O.

2. Answer any *two* of the following questions :

10×2=20

- (a) Describe the structure of nucleosome with suitable illustrations.
 - (b) Describe the negative control of lactose operon.
 - (c) Give an account of Watson and Crick's double stranded molecule of DNA. State the function of kinetochore. 8+2
 - (d) Describe the various steps of elongation and termination of translation in prokaryotes.
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