

A (Printed Pages 3)

(20620) Roll No.

3478 (N) (CV)

B.Sc. (Biotechnology) IIIrd Year

Examination, June- 2020

TRANSCRIPTOMICS AND METABOLOMICS

[B-306 (Old) & B-310 (New)]

(B.Sc. Biotech.)

Time : 2 Hours]

[Maximum Marks : 100

Note : Attempt **four** questions in detail. Each question carries equal marks.

1/ What are ESTs? How there ESTs are constructed? Discuss the various limitations of EST Data.

2/ What is Transcript profiling? Discuss the methods available for transcript profiling in detail.

3. Describe in detail construction of transcript maps and functional maps.

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4. Write detailed notes on the following :

(i) ESTs contigs and unigen sets.

(ii) MPSS

5/ Write Biosynthesis of -

(i) Carotenoids

(ii) Alkanoids

6. Write short notes on any **two** of the following :

(i) FANCY

(ii) Transcriptome

(iii) BLAST

7. Write in detail about metabolic control analysis (MCA) and metabolic engineering.

8. Write detailed notes on the following:

(i) Insertional mutagenesis

(ii) Metabolic engineering for PHAs.

9/ How the metabolic flow is redirected with the following problems :

(i) By the activity of rate limiting

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enzyme

- (ii) By alteration in protein processing pathway.

~~10.~~ Write detailed notes on the following :

- (i) Network Rigidity
(ii) Desensitization feedback Inhibition.

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