



SC-2719

M. Sc. Microbiology (Sem. II) Examination
April / May – 2011

MB - 204 : Genomics, Proteomics and other Omics

Time : Hours]

[Total Marks : 70

सूचना :

(1)

नीचे दृशावेक निशानीवाणी विगतो उत्तरवडी पर अवश्य लभवी. Fillup strictly the details of signs on your answer book.	Seat No. :
Name of the Examination :	<input type="text"/>
<input type="text" value="M. Sc. Microbiology (Sem. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="M B 204 : Genomics, Proteomics and other Omics"/>	<input type="text"/>
Subject Code No. : <input type="text" value="2"/> <input type="text" value="7"/> <input type="text" value="1"/> <input type="text" value="9"/>	<input type="text"/>
Section No. (1, 2,...): <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

1 Answer the following : (any three) 18

- (1) Enlist the different methods of genomic sequencing.
Describe in detail about clone sequencing.
- (2) Discuss in detail about the insitu hybridization and radiation hybrid mapping.
- (3) Briefly explain about the applications of comparative genomics.
- (4) Elaborate your views on genome annotation.
- (5) Write a note on ELSI of HGP.

2 Answer the following ; (any three) 18

- (1) Describe in detail about X-ray crystallography method to detect protein structure.
- (2) Elaborate your views about proteome complexity with its diverse perspectives.
- (3) Enlist the techniques used to identify proteins. Explain in detail about mass spectroscopy.
- (4) Write short note on current technologies used for proteome coverage.

3 Answer the following : (any **three**) **18**

- (1) Describe the role of proteomics in the field of medical biotechnology.
- (2) Enlist different methods used for protein - protein interactions. Describe in detail about co-immunoprecipitation.
- (3) Write short notes on protein microarray and its application.
- (4) Elaborate your views about the manufacturing of protein chips.

4 Answer the following : (any **two**) **16**

- (1) Give future perspectives of metabolomics
 - (2) Explain different applications of metagenomics in various field.
 - (3) Write a note on sequence based analysis of metagenomics.
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