



DPP-1406

M. Sc. (Sem. II) Examination

April / May - 2016

MB-201 : Microbiology

(Molecular Microbial Physiology & Enzymology)

Time : Hours]

[Total Marks : 70

Instruction :

नीचे दृष्टावेक निशानीवाणी विगतो उत्तरवही पर अवश्य लिखवी. 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. (SEM. 2)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MB-201 : MICROBIOLOGY"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="4"/> <input type="text" value="0"/> <input type="text" value="6"/>	<input type="text"/>
Section No. (1, 2,.....) : <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

- 1 Answer the following : (any two) 18
- (a) Explain southern blot technique and give its importance.
- (b) How protein – protein interaction is determined by two hybrid analysis?
- (c) Describe DNA mobility shift as a tool for studying microbial physiology.
- 2 Answer the following : (any two) 18
- (a) Discuss. Explain two component signaling system.
- (b) Discuss biochemistry and physiology of adaptation of extreme thermophiles.
- (c) Discuss biochemistry and physiology of adaptation of extreme halophiles.
- 3 Answer the following : (any two) 18
- (a) Describe methods for C-terminal sequencing of protein.
- (b) How secondary structure of protein is determined?
- (c) Discuss mechanism of acid base catalysis.

4 Write notes on the following : (any two)

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- (a) Discuss competitive, non competitive and uncompetitive inhibition of enzyme.
 - (b) Lineweaver Burk plot v/s Hans Plot.
 - (c) Derive Michaelis – Menten Equation.
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