



DMM-1638

M. Sc. (Sem. IV) (Microbiology) Examination

April / May - 2016

MB - 401 : Research Methodology,

Biostatistics & IPR

(New Course)

Time : 3 Hours]

[Total Marks : 70

Instructions :

(1)

नीचे दृष्टांतवें निशानीवाणी विगतो उत्तरवडी पर अवश्य लपवी. 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. IV) (MICROBIOLOGY)"/>	<input type="text"/>
Name of the Subject :	<input type="text"/>
<input type="text" value="MB - 401 : RES. METHO., BIOSTATI. & IPR (NEW)"/>	<input type="text"/>
Subject Code No. : <input type="text" value="1"/> <input type="text" value="6"/> <input type="text" value="3"/> <input type="text" value="8"/>	<input type="text"/>
Section No. (1, 2,.....): <input type="text" value="Nil"/>	<input type="text"/>
	Student's Signature

(2) Figures to the right indicate full marks of the question.

(3) Draw neat and labelled diagrams whenever necessary.

1 Answer the following : (any two) 18

(1) Discuss in detail types and characteristics of research.

(2) Elaborate a note on design and formatting research problem.

(3) Give detail account on identification of variables and construction of research hypothesis.

2 Answer the following : (any two) 18

(1) Give detail on presentation methods of data.

(2) Discuss effects of variations in sampling and sources.

(3) Give application and role of biostatistics in biological sciences.

3 Answer the following : (any two) 18

(1) Discuss appropriate measure of central tendency for statistical study.

(2) Give application of t-distribution.

(3) Calculate mean of below data :

Fishes	1	2	3	4	5	6	7	8	9	10
Weights (gm)	225	214	253	325	242	240	285	230	280	350

4 Write short notes : (any two)

16

- (1) Benefits and problems of IPR.
 - (2) WIPO
 - (3) Indian response to the IPR upheaval.
-