

ASSIGNMENT-1

Program Name -B.Sc. (Microbiology)

Year/Sem-1st/Ist. Sem.

Course Name –Evolution

Last date of submission-11/9/2017

Course Code –BSCMB-111

Instructions:

1. Write the response to the assignment in your own handwriting.
2. Submit the response to your HOD within the due date.
3. Write your Name, Programme, and Enrolment no. clearly at the top of the page.

Q-1.(a). Discuss about the concept of origin of life.

(b).What is evolution?, Write the theories of of evolution.

Q-2.(a).Write about the Lamarckism theory acquired characters of evolution.

(b).Describe the the theory of natural selection in evolution.

ASSIGNMENT-1

Program Name -B.Sc. (Microbiology)

Year/Sem-1st/Ist. Sem.

Course Name –Cell Biology

Last date of submission-11/9/2017

Course Code –BSCMB-112

Instructions:

1. Write the response to the assignment in your own handwriting.
2. Submit the response to your HOD within the due date.

3. Write your Name, Programme, and Enrolment no. clearly at the top of the page

Q-1.(a). What is cell? Discuss about the Prokaryotic & Eukaryotic types of cell.

(b). Describe the structure and function of a Cell wall.

Q-2(a). Write about the cell cycle and its regulation.

(b). Draw a labelled diagram of Fluid Mosaic model of plasma membrane.



MONAD UNIVERSITY HAPUR (UP)

Programme: **B.Sc (Micro-Biology)-1year.**

Semester: **I**

Course: **BSCMB-115 Elementary Mathematics**

Assignment No: **1**

Due date of submission: **11.09.2017**

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrolment Number clearly at the top of the page.

Q.1

- (a) If X and Y are two sets such that $X \cup Y$ has 50 elements, X has 28 elements and Y has 32 elements, how many elements does $X \cap Y$ have?
- (b) What is De Morgan's Law?

Q.2

(a) If $A = \begin{bmatrix} 0 & 6 & 7 \\ -6 & 0 & 8 \\ 7 & -8 & 0 \end{bmatrix}$, $B = \begin{bmatrix} 0 & 1 & 1 \\ 1 & 0 & 2 \\ 1 & 2 & 0 \end{bmatrix}$, $C = \begin{bmatrix} 2 \\ -2 \\ 3 \end{bmatrix}$, then calculate AC , BC and $(A+B)C$.

(b) Write down the minors and cofactors of each element and also evaluate the determinant

$$\begin{vmatrix} 1 & 3 & -2 \\ 4 & -5 & 6 \\ 3 & 5 & 2 \end{vmatrix}.$$



MONAD UNIVERSITY HAPUR (UP)

Programme: **B.Sc (Micro-Biology)-1year**

Semester: **I**

Course: **BSCMB-114 Computer Applications & Biostatistics**

Assignment No: **1**

Due date of submission: **11.09.2017**

Instructions

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HOD within the due date.
3. Write your Name, Programme and Enrolment Number clearly at the top of the page.

Q.1

- a) Discuss about the history of computers and introduction to software.
- b) We know very well that data collection is the process of gathering and measuring information on targeted variables in an established systematic fashion, which then enables one to answer relevant questions and evaluate outcomes. Discuss various methods of collecting data with advantages and disadvantages.

Q.2

- a) We know very well that a diagram is a symbolic representation of information according to some visualization technique. Diagrams have been used since ancient times, but became more prevalent during the enlightenment. The advantage and disadvantage of graphical representation of data.
- b) Ms. Shashi's monthly income is Rupees 14400. The monthly expenses of her family on various items are given below:

Item	Rent	Food	Clothing	Education	Savings
Expenditure (in Rupees)	4000	5400	2800	1800	400

Represent the above data by a Pie chart.



ASSIGNMENT-1

Course- B.Sc (Micro biology)

Sub code-113

Sub-Elementry Chemistry

Year-1st year/1st sem

Last date of Submission-11/09/2017

Instruction

- 1) Write the responses to the assignment in your own handwriting.
- 2) Submit the responses to your HOD within the due date.
- 3) Write your name, program and Enrollment nu clearly at the top of the page.

Q1.

- a) What is Bonding. Explain different types of bonding with proper examples.
- b) Explain postulates of VBT. Give MOT for C₂ and NO molecule.

Q2.

- a) Explain structure of atom along with atomic nu. and atomic mass. Give nu. of electron, proton, neutron, atomic mass and atomic number. in ^{35.5}Cl₁₇.
- b) What is difference between elements compounds and mixture? Explain with proper examples.

