Exam.Code:0039 Sub. Code: 0991

Max. Marks: 60

2012

B.Sc. (Hons.) Bio-Informatics First Semester

BIN-1004: Life Science

						Question	No.	I	which	is	compulsory
and selecting two questions from each Unit.											
					<i>X-X-X</i>						

I. Answer the following:-

Time allowed: 3 Hours

- a) Define cell
- b) Give full form of AIDS and the name of the virus that causes it
- c) What is the need to study biology?
- d) Name two vestigial organs of human
- e) What are the functions of ovaries and testis In reproductive system?
- f) How is the cell cycle regulated?

(6x2)

UNIT - I

- II. Differentiate between the following:
 - a) Prokaryotes and eukaryotes
 - b) Cell wall and cell membrane

(8,4)

- III. a) Enlist any three hormone secreted by endocrine system and give their functions.
 - b) Enlist fundamental cell types and give their functions.

(2x6)

- IV. a) Differentiate between mitosis and meiosis.
 - b) Discuss fluid mosaic model of cell membrane.

(8,4)

UNIT - II

- V. a) Discuss the concept of evolution and give any one example in support of it.
 - b) Enlist some useful microbes and their functions.

(8,4)

- VI. a) Give characteristic features of member of algae.
 - b) Discuss classification of viruses.

(2x6)

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(2)

- VII. a) Discuss the growth curve of bacteria in culture.
 - b) Give two examples each of diseases caused due to the following:
 - i) Fungi
 - ii) Bacteria

iii) Viruses (2x6)

X-X-X