



BR-1325-26 Seat No. _____

First Year B. Sc. (Sem. II) Examination

April/May - 2014

Biotechnology

(Elective Course)

1. Biodiversity - (Subjective ES)

2. Biocomputing - (Subjective EBT-II) (EC2)

Time : 3 Hours]

[Total Marks : 50

1. Biodiversity - (Subjective ES)

1 Answer the following 10

A Bacteria are _____?

- 1 Prokaryotes
- 2 Eukaryotes
- 3 Akaryotes

B Fungi are _____?

- 1 Eukaryotes
- 2 Akaryotes
- 3 Prokaryotes

C Which of the following is a bridge between living and non-living?

- 1 Bacteria
- 2 Viruses
- 3 Algae

D Which of the following are Phototrophic?

- 1 Algae
- 2 Protozoa
- 3 Fungi

E Genetic diversity can be studied with the help of _____?

- 1 DNA
- 2 Protein
- 3 Lipid

- F Yeast is a type of _____?
 1 Bacteria
 2 Fungi
 3 Protozoa
- G Which of the following is a Mold?
 1 Penicillium
 2 Candida
 3 Streptomyces
- H 70 S ribosomes are observed in _____?
 1 Plants
 2 Bacteria
 3 Animals
- I Chlorophyll is present in ____?
 1 Plant cell
 2 Animal cells
 3 Viruses
- J Peptidoglycan is present in _____?
 1 Bacterial cellwall
 2 Plant cellwall
 3 Viral cellwall

2 Answer the following : (any five) **10**

- A Define biodiversity.
 B Define microbial diversity.
 C Give two names of Gram positive bacteria.
 D Give the any one plant scientific name.
 E Give the any one animal scientific name.
 F Give any one name of Gram negative bacteria.
 G Name the types of biodiversity.

3 Answer the following : (any four) **20**

- A Write a note on Species diversity.
 B Write a note on Genetic diversity.
 C Write a note on Ecological diversity.
 D Write a note on Functional diversity.
 E Discuss role of Biotechnology in biodiversity conservation.
 F Give an overview on plant biodiversity.

4 Answer the following : (any one) **10**

- A Give an overview on Microbial diversity.
 B Write a note on Biodiversity conservation.

2. Biocomputing - (Subjective EBT-II) (EC2)

PART - A

Give the answer in short : (any five) **5**

- 1 Full form of ALU.
- 2 .com domain is given to which site address ?
- 3 Full form of FTP.
- 4 Output device
- 5 Input device
- 6 Types of printer
- 7 Give two search engine.

PART - B

Give answer in short detail : (any three) **15**

- 8 CPU and its structure.
- 9 History of Internet.
- 10 Email
- 11 Hardware
- 12 Importance of search engine.

PART - C

- 13 Architecture of computer.
 - 14 Generation of computer.
 - 15 Give a detail note on basic operation of computer system.
 - 16 Application of Internet in Biotechnology.
 - 17 Software
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