

PARUL UNIVERSITY
FACULTY OF APPLIED SCIENCE
B.Sc./IMSC, Summer 2017-18 Examination

Semester: 4,6
Subject Code: 11102252
Subject Name: Bioinformatics

Date: 19/05/2018
Time: 2:00 PM-4:30 PM
Total Marks: 60

Instructions:

1. All questions are compulsory.
2. Figures to the right indicate full marks.
3. Make suitable assumptions wherever necessary.
4. Start new question on new page.

- Q.1. A) Essay type/ Brief note (4x2) (Each of 04 marks) (08)**
(a) Define the term Algorithm and give an example
(b) What are the different types of Computers?
- Q.1. B) Answer the following questions (Any two)**
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
1. Mention the meaning and purpose of RAM and ROM
2. What is a Database?
(b) Give the differences between a Compiler and an Interpreter (04)
(c) How is DNA analyzed using any programming language? (04)
- Q.2. A) Answer the following questions.**
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
1. 'OLED' stands for?
2. VDU stands for?
(b) Describe 'Machine Code' (04)
- Q.2. B) Answer the following questions (Any two)**
(a) Give the names of any three types of Operating System (03)
(b) Mention any three types of input devices (03)
(c) Give three examples of Mobile Apps (03)
- Q.3. A) Essay type/ Brief note (4x2) (08)**
(a) Briefly describe the purpose of EMBL-EBI
(b) Write an Essay on 'Overview of Computers'
- Q.3. B) Answer the following questions (Any two)**
(a) Short note/ Brief note (2x2)/ Schematically label the figures (2x2) (Each of 02 marks) (04)
1. Define Data
2. The full form of 'PRIDE' is?
(b) Write a note on Input and Output devices (04)
(c) Write a note on Programming languages (04)
- Q.4. A) Answer the following questions.**
(a) Short note/ Brief note (2x2)/ Fill in the blanks. (Each of 02 marks) (04)
1. What is the full form of CRT in computer monitors?
2. What does GUI stand for?
(b) What is the role of DDBJ in Asia? (04)
- Q.4. B) Answer the following questions (Any two)**
(a) Short note/ Multiple choice questions. (Each of 01 marks) (03)
1. Which app allows booking appointment on Microsoft 365 platform?
2. Explain the function of Delve in one sentence
3. What is the science of collecting and analysing complex biological data such as genetic codes?
(b) State the 3 types of Printers (03)
(c) Mention any three VDU's (03)