

(6 pages)

Reg. No. :

Code No. : 7896

Sub. Code : PBOM 33

M.Sc (CBCS) DEGREE EXAMINATION,
NOVEMBER 2019.

Third Semester

Botany - Core

COMPUTER APPLICATION AND BIOINFORMATICS

(For those who joined in July 2017 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer:

1. In a word document the fast way of inserting common words is
 - (a) Auto Save
 - (b) Auto Correct
 - (c) Auto Text
 - (d) Auto Recover
2. The feature of Microsoft Excel is
 - (a) calculation
 - (b) graphing tools
 - (c) pivot tables
 - (d) all the above

3. The join the internet, the computer has to be connected to a
 - (a) internet architecture board
 - (b) internet society
 - (c) internet service provider
 - (d) none of the mentioned
4. Which one of the following protocol is not used in internet?
 - (a) HTTP
 - (b) DHCP
 - (c) DNS
 - (d) None of the mentioned
5. The term bioinformatics emerged in the year
 - (a) 1989
 - (b) 1988
 - (c) 1985
 - (d) 1990
6. A human genome contains about
 - (a) 2 billion base pairs
 - (b) 3 billion base pairs
 - (c) 4 billion base pairs
 - (d) 5 billion base pairs

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7. Which of the following is a protein sequence database?

- (a) DDBJ (b) EMBL
- (c) Genbank (d) PIR

8. The Genbank and SwissProt are the examples of

- (a) Primary database
- (b) Secondary database
- (c) Composite database
- (d) None of these

9. Which of the following tools is used to search homology and similarity

- (a) BLAST (b) RasMol
- (c) PASS (d) MMTK

10. The visualization of proteins, nucleic acids and small molecules is by the method

- (a) PHYLIP (b) GOR
- (c) PFAM (d) RasMol

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PART B — (5 × 5 = 25 marks).

Answer ALL questions, choosing either (a) or (b)
Each answer should not exceed 250 words.

11. (a) Define computer? Explain its applications.

Or

(b) Outline the classification of computers.

12. (a) What is Search Engine?

Or

(b) Point out the application of internet.

13. (a) Describe Bioinformatics.

Or

(b) Explain the human genome project.

14. (a) Briefly explain the GenBank.

Or

(b) Describe the protein sequence database.

15. (a) Explain BLAST.

Or

(b) Write notes on molecular visualization software.

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[P.T.O.]



PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

16. (a) Write an essay on characteristics of computers?

Or

- (b) Give a detailed note on MS Excel.

17. (a) Describe the Internet Browsers.

Or

- (b) Write an elaborate note on Worldwide web.

18. (a) Give an account of genomics and proteomics.

Or

- (b) Narrate the medically relevant genes.

19. (a) Explain the SwissProt.

Or

- (b) Describe the TrEMBL.

20. (a) What is FASTA? Explain it.

Or

- (b) Describe the method of pairwise and multiple sequence alignment.
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