| C 43528 | (Page | es 2) | Name | |
|--|---------------------------------------|-------------------|-------------|----------------|
| | | | Reg. No | |
| FIRST SEMESTER B.Sc. DEGREE EXAMINATION, JULY 2013 | | | | |
| | (CC | SS) | | |
| | Biotech | nology | | |
| BT 1B 01—INFORMATICS AND BIOINFORMATICS | | | | |
| Time: Three Hours | | | Maximum | :30 Weightage |
| I. Objective Typ | e Questions. Answer all <i>twelve</i> | questions: | | |
| A. State true or | false: | | | |
| 1 Smith-Wa | terman algorithm is used for g | lobal alignment. | | |
| 2 PIR is pr | rotein database. | | | |
| 3 Sangers | method is the chain termination | n method for DMA | sequencing. | |
| 4 Firewall | is a search engine. | | | |
| 5 GenBanl | k is a non-redundant DNA data | base. | | |
| 6 Basmati | is a geographical indication. | | | |
| 7 Automatic | c teller machine is used for cas | h withdrawal. | | |
| 8 cDNA is | total DNA isolated from cells. | | | |
| 9 Flybase i | s the database for Drosophila r | nelanogaster. | | |
| 10 Craig Ver | nter founded Celera genomics. | | | |
| 11 BITS and | bytes are the same. | | | |
| 12 PAM matr | rix is used for evolutionary dist | ance in proteins. | | |
| | | | (12 x | = 3 weightage) |
| II. Short Answer | type questions. Answer all <i>nir</i> | e questions : | | |
| Write short n | otes on : | | | |
| 13 BRNET. | | | | |
| 14 ORF. | | | | |
| 15 WWW. | | | | |
| 16 Internet. | | | | |

17 Motherboard.

18 Patents.

Turn over

- 19 ExPASy.
- 20 EMBL.
- 21 BLAST.

 $(9 \times 1 = 9 \text{ weightage})$

- III. Short essay or Paragraph questions. Answer any five from seven:
 - 22 What is your understanding of warranty and Guarantee?
 - 23 Write an account on ATM.
 - 24 What is meant by open access publishing model?
 - 25 Give an account on bio-computing.
 - 26 What are the privacy issues related to the cyber world?
 - 27 Explain the significance of e-governance today.
 - 28 What is gene hunting?

 $(5 \times 2 = 10 \text{ weightage})$

- IV. Essay questions. Answer any two from three:
 - 29 Write briefly on the DNA and protein databases.
 - 30 Give an overview of IT application in communication, publication and commerce.
 - 31 Write briefly on futuristic IT-artificial intelligence and virtual reality.

 $(2 \times 4 = 8 \text{ weightage})$