| Enrollment No: | | | |
|-----------------------------------|--|---|------|
| | C.U.SHAH | I UNIVERSITY | |
| | Summer E | Examination-2016 | |
| Subject | Name: Bioinformatics/Biostatist | ics | |
| Subject Code: 4LS04BOT1/4SC04BIB1 | | Branch: B.Sc.(Micro,Biotech) | |
| Semeste | r: 4 Date: 05/05/2016 | Time: 02:30 To 05:30 Marks: | 70 |
| (2) | Use of Programmable calculator & Instructions written on main answe | er book are strictly to be obeyed. | |
| (2) (3) | | er book are strictly to be obeyed. f necessary) at right places. | (14) |

Atten

diagram.

| Q-2 | | Attempt all questions | (14) |
|-----|------------|--|------|
| | a) | What is bioinformatics? Write about Areas, scope and applications of | |
| | | bioinformatics. | |
| | b) | Enlist various databases of proteins and describe. | |

Q-3 Attempt all questions **(14)** Write a note on Secondary databases.

Q-4 **Attempt all questions (14)** Explain in detail about Primary, Secondary and tertiary structure of proteins with a)

Page 1 || 2



| Q-5 | | Attempt all questions | (14) |
|------------|------------|---|------|
| | a) | Explain Needleman and Wunch algorithm | |
| | b) | Explain Smith and waterman algorithm | |
| Q-6 | | Attempt all questions | (14) |
| | a) | Write a note on GenBank and explain general format followed by genbank. | |
| | b) | Write a note on Phylogenetic analysis methods. | |
| Q-7 | | Attempt all questions | (14) |
| | a) | Explain all Primary databases of DNA. | |
| | b) | Explain comparison of two sequences in detail. | |
| Q-8 | | Attempt all questions | (14) |
| - | a) | What is t-test and chi-test? Explain briefly. | · · |
| | b) | Write a note on various secondary databases and their primary sources. | |

