

**2012**

**M.Sc.**

**1st Semester Examination**

**BIOTECHNOLOGY**

**PAPER—BIT-106**

**(PRACTICAL)**

**Full Marks : 40**

**Time : 4 Hours**

*The figures in the right-hand margin indicate full marks.*

*Candidates are required to give their answers in their own words as far as practicable.*

**(Microbiology)**

1. Prepare a growth curve of supplied bacterial sample and give probable explanation of each growth phase from your growth curve. 2+5+6+2

*(Principle—2, Work—5, Result—6 Comment—2)*

*Or*

Isolated and enumerate the number of bacteria present in 1 gm of supplied soil. 3+2+4+3+3

*(Principle—3, Inoculation—2, Preparation—4, Observation—3, Calculation—3)*

*(Turn Over)*

2. Comment on the quality of water-sample through coliform test.

2+4+4

(Principle—2, Work—4, Calculation—4)

3. Measure the concentration of antibiotic present in the supplied sample.

2+1+2

(Work—2, Result—1, Comment—2)

4. Laboratory note book. 5

5. Viva-voce. 5

---