

C 3467

(Pages : 2)

Name.....

Reg. No.....

**FOURTH SEMESTER M.Sc. DEGREE EXAMINATION
JUNE 2016**

(CUCSS)

Zoology

ZO 4C T11—MICROBIOLOGY AND BIOTECHNOLOGY

(2010 Admissions)

Time : Three Hours

Maximum : 36 Weightage

I. Answer all *fourteen* questions :

- 1 Briefly state the contributions of Louis Pasteur.
- 2 What is numerical Taxonomy ?
- 3 What are sex pili ?
- 4 Explain a growth curve.
- 5 Write on SARS.
- 6 State the nature of biogas plants.
- 7 Outline the clinics of tetanus.
- 8 What is Y A C vector ?
- 9 Explain transfection.
- 10 What is Western blot ?
- 11 What is DNA finger printing ?
- 12 Explain IVF.
- 13 Outline biomonitoring.
- 14 Write on BT cotton.

(14 × 1 = 14 weightage)

II. Answer any *seven* of the following :—

- 15 Comment on ethics in biotechnology.
- 16 Write on toxic site reclamation.

Turn over

- 17 Explain gene therapy.
- 18 Discuss cDNA library.
- 19 Explain any *two* molecular markers.
- 20 Write a brief note on bacterial diseases man.
- 21 Describe bacterial cell wall.
- 22 Discuss enveloped viruses.
- 23 Provide the epidemiology of swine flue.
- 24 Explain waste water treatment.

(7 × 2 = 14 weightage)

III. Answer any *two* of the following :—

- 25 Provide the process and applications of microbial fermentation.
- 26 Describe various nutritional types of microbes and their culture media.
- 27 Narrate the sequences involved in in-vivo cloning.
- 28 Explain gene sequencing by Maxam and Gilbert's method.

(2 × 4 = 8 weightage)