

YOGI VEMANA UNIVERSITY

UG-EXAMINATIONS-KADAPA

I B.Sc- SEM-I Microbiology

Model question paper

EXTERNAL SEMESTER END EXAMS

TIME:-3hrs

MAX MARKS: - 75

SECTION-A (Short Answer Questions)

Answer any **five** of the following questions

5X5=25M

1. Anton van Leeuwenhoek
2. Cyanobacteria
3. Autoclave
4. Mycoplasma
5. Radiation methods of sterilization.
6. Pure culture.
7. Hot air oven.
8. Lyophilization.
9. Halogens
10. protozoa

SECTION-B (Essay type long Answer Questions)

Answer All questions

5x10=50M

UNIT-I

11. Describe the importance and applications of microbiology
(or)

12. Describe the classification of microorganisms.

UNIT-II

13. Describe the general characteristics of virus
(or)

14. Explain the ultra structure of prokaryotic cell.

UNIT-III

15. Describe the general characteristics of fungi.
(or)

16. Write an essay on electron microscopy.

UNIT-IV

17. Give an account on staining techniques used in bacteriology.
(or)

18. Describe the chemical sterilization methods.

UNIT-V

19. Describe the various methods of preservation of microbial cultures.

(or)

20. Write an essay on isolation of pure culture techniques.

YOGI VEMANA UNIVERSITY

UG-EXAMINATIONS-KADAPA

I B.Sc- SEM-II Microbiology

Model question paper

EXTERNAL SEMESTER END EXAMS

TIME:-3hrs

MAX MARKS: - 75

SECTION-A (Short Answer Questions)

Answer any **five** of the following questions

5X5=25M

1. Disaccharides.
2. Nucleic acids.
3. Centrifugation.
4. Lock and fit model.
5. Non-competitive inhibition.
6. Turbidometry.
7. Differential media.
8. Lactic acid fermentation.
9. ED path way.
10. Electrophoresis

SECTION-B (Essay type long Answer Questions)

Answer **All** questions

5x10=50M

UNIT-I

11. Describe the general characteristics of proteins.

(or)

12. Describe about saturated fatty acids..

UNIT-II

13. Describe the thin layer chromatography.

(or)

14 .Explain the Spectrophotometer.

UNIT-III

15. Describe the properties and classification of enzymes.

(or)

16. Write an essay on enzyme inhibition.

UNIT-IV

17. Give an account on methods for measuring microbial growth.

(or)

18. Describe the uptake of nutrients by cells.

UNIT-V

19. Describe TCA cycle.

(or)

20. Write an essay on oxygenic and Anoxygenic photosynthesis in bacteria.

YOGI VEMANA UNIVERSITY

UG-EXAMINATIONS-KADAPA

II B.Sc- SEM-III Microbiology

Model question paper

EXTERNAL SEMESTER END EXAMS

TIME:-3hrs

MAX MARKS: - 75

SECTION-A (Short Answer Questions)

Answer any **five** of the following questions

5X5=25M

1. Transformations
2. Transversions
3. Vectors
4. Cistron
5. Plasmids
6. Conjugation
7. Structure of Ribosome
8. DNA Ligases
9. Operator
10. Polymerase chain reaction

SECTION-B (Essay type long Answer Questions)

Answer **All** questions

5x10=50M

UNIT- I

11.Explain Replication of DNA

(Or)

12. Write about Structure and Functions of DNA.

UNIT-II

13. Write about DNA damages.

(Or)

14. Write about Physical Mutagens.

UNIT-III

15. Write about RNA and their functions.

(Or)

16. Write salient features of Genetic code

UNIT-IV

17. Write about translation.

(Or)

18. Write about lac- Operon

UNIT-V

19. Write applications of genetic engineering.

(Or)

20. Write few points about R- DNA technology.

YOGI VEMANA UNIVERSITY

UG-EXAMINATIONS-KADAPA

II B.Sc- SEM-IV Microbiology

Model question paper

EXTERNAL SEMESTER END EXAMS

TIME:-3hrs

MAX MARKS: - 75

SECTION-A (Short Answer Questions)

Answer any **five** of the following questions

5X5=25M

1. Basophiles
2. Macrophages
3. Agglutinations
4. IgM
5. Normal flora of respiratory tract
6. Immuno Fluorescence
7. Structure of Streptomycin
8. Serial Dilution
9. Control measurements Of Malaria
10. Epidemiology

SECTION-B (Essay type long Answer Questions)

Answer **All** questions

5x10=50M

UNIT-I

11. Write about types of immunity.

(Or)

12. Write secondary organs of immune system.

UNIT-II

13. Write about Antigen-Antibody Reactions

(Or)

14. Write Basic concepts of Hyper sensitivity.

UNIT-III

15. Write about normal flora of human body.

(Or)

16. Write about Nosocomial infections

UNIT-IV

17. Write about Pencillin.

(Or)

18. Write about anti microbial susceptibility test.

UNIT-V

19. write about Bacterial disease: Tuberculosis and Typhoid .

(Or)

20. Write about Fungal disease.