

Phone : 08819 - 246126 / 246926

Website : www.svkpandksrajucollege.org.in



S.V.K.P. & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE
(Autonomous)

Recognized by UGC as "College with Potential for Excellence"

Accredited by NAAC with "A" Grade

(Affiliated to ADIKAVI NANNAYA UNIVERSITY - Recognised by Govt. of Andhra Pradesh)

PENUGONDA-534 320, West Godavari District., (A.P.)

MICROBIOLOGY	CODE: 19MB1	2019-20	B.Sc.
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Semester – I

MICROBIOLOGY

Time: 3 Hours

Paper – I

MODEL QUESTION PAPER

Max. Marks: 75

(INTRODUCTION TO MICROBIOLOGY AND MICROBIAL DIVERSITY)

Part – 1

Answer any five questions choosing at least two from each section. Each question carries 10 marks.

5x10=50 marks

Section-A

1. Write an essay on the major mile stones in the development of microbiology?
2. Describe the contributions of Louis Pasteur and Robert Koch to microbiology?
3. Write the general characteristics of Viruses?
4. Explain the morphology , structure & replication of TMV?
5. Explain the general characteristics of Algae and its economic importance?

Section-B

6. Describe the principle , types involved in Electron microscopy and its applications?
7. Describe the procedure of differential staining and its types?
8. Explain in detail about the physical methods of sterilization?
9. Explain the different methods of Isolation of pure cultures?
10. Describe the different methods of preservation?

Part – 2

Answer any five questions. Each question carries 5 marks.

5x5=25 marks

11. Importance and applications of microbiology
12. Whittakers five kingdom classification
13. cyanobacteria
14. prokaryotic cell
15. protozoa
16. Gamma rays
17. Alcohols
18. Spread plate

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PENUGONDA-534 320, West Godavari District., (A.P.)

MICROBIOLOGY	CODE:19 MB2	2019-20	B.Sc.
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Semester – II

MICROBIOLOGY

Time: 3 Hours

Paper – II

MODEL QUESTION PAPER

Max. Marks: 75

(MICROBIAL BIOCHEMISTRY AND METABOLISM)

Part – 1

Answer any five questions choosing at least two from each section. Each question carries 10 marks.

5x10=50 marks

Section-A

- 1.Explain the classification and general characteristics of carbohydrates?
- 2..Explain the structure and properties of lipids?
- 3.Write about the principle ,instrumentation and applications of colorimetry?
- 4.Write about the principle procedure and applications of thin layer chromatography?
- 5.Describe the properties and classification of enzymes?

Section-B

6. Describe the factors effecting the catalytic activity of enzymes?
- 7.Explain the outlines of oxygenic and anoxygenic photosynthesis in bacteria?
- 8.Write about the physical and chemical factors influence in microbial growth?
- 9.Explain about the TCA cycle?
- 10.Describe the process of lactic acid fermentation?

Part – 2

Answer any five questions. Each question carries 5 marks.

5x5=25 marks

- 11.Nitrogen bases
- 12.Fatty acids
- 13.spectrophotometry
- 14.Lock and key hypothesis
- 15.Competitive inhibition
- 16.Synchronous culture
- 17.Heterotrophs
- 18.Electron Transport.
