

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.)

BIOTECHNOLOGY	CODE: 19BT1	2019-20	B.Sc.
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Semester – I

BIOTECHNOLOGY

Time: 3 Hours

Paper – I

MODEL QUESTION PAPER

Max. Marks: 75

(MICROBIOLOGY AND CELL BIOLOGY)

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 the comparison between optical and Electron microscopy?
2. What is staining? Write about different staining methods?
3. Describe the structure of typical Bacterial cell?
4. Explain the general characteristics of Viruses?
5. Write about basic nutritional requirements of Bacteria?

Section-B

6. Write about i) synthetic media ii) Differential media
7. Detailed account on growth curve and its various phases?
8. Write about various Microbial control techniques?
9. Describe the structure of Eukaryotic cell?
10. Write about Mitotic cell division and its significance?

Part – 2

Answer any five questions. Each question carries 5 marks.

5x5=25 marks

11. Louis Pasteur
12. Plasmids
13. Endospore
14. Enriched media
15. Batch cultures
16. Sterilization & disinfection
17. Mitochondria
18. Nucleus

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

BIOTECHNOLOGY	CODE:19BT2	2019-20	B.Sc.
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Semester – II

BIOTECHNOLOGY

Time: 3 Hours

Paper – II

MODEL QUESTION PAPER

Max. Marks: 75

(Macromolecules, Enzymology & Bioenergetics)

Part – 1

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

5x10=50 Marks

Section-A

1. What is DNA? Write about Watson and crick mode of DNA Double helix structure?
2. What is RNA? Write about its types?
3. Write the various types of amino acids?
4. Write a note on protein structural levels?
5. What are carbohydrates? Write a note on its classification?

Section-B

6. Write a note on properties of lipids?
7. What are enzymes? Write about its classification?
8. Describe the different factor effecting the enzyme catalysed reactions?
9. Write a note on Glycolysis?
10. Explain about High energy compounds?

Part – 2

Answer any five questions. Each question carries 5 marks.

5 x 5=25 Marks

11. A - DNA
12. Phosphodiester bond
13. Ninhydrin reaction
14. Disaccharides
15. Heme
16. Holoenzyme
17. Competitive inhibition
18. Free energy
