S.V.K.P & Dr K.S.RAJU ARTS & SCIENCE COLLEGE (A), PENUGONDA I Semester (w.e.f. 2020-21 Admitted Batch) MICROBIOLOGY

MICROBIOLOGY	MICROBI		
MICROBIOLOGY	CODE: 20MB1	2020-21	B.Sc.
Semester – I	MICRO	BIOLOGY	Time: 3 Hours
Paper – 1	MODEL OUE	STION PAPER	Max Marke: 75
(INTRODUCTI	ON TO MICROBIOLO Par	GY AND MICROBIAI	_ DIVERSITY)
Answer any five quest	tions choosing at least t	wo from each section.	
Each question carries	10 marks.		5x10=50 mark
	of microbiology and its a		elds?
2. Explain the five king	dom concept of R.H whi	ttaker's?	
3. Write the general cha	aracteristics of bacteria?		
4. Write the general cha	aracteristics of cyanobac	teria?	
5. Give an account on g	general characteristics of	fungi?	
6 Give an account on	SECTIO	DN -B	
	classification of protozoa	?	
7. Explain the pure cult			
	a? what are the types of	media?	
9. Explain Electron mi		1 .	
10. What are the physi	ical methods of sterilizati	on?	
Answer any five ques	Part	- 2	
Each question carries			5x5=25 marks
11. Anton von leeuwen	hock		
12. Algae reprodution			
13. Mycoplasam			
14. TMV			
15. Lyophilization			
16. Gram staining			
17. Subculturing			
18. Protozoa locomotic	on		

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S.V.K.P & Dr K.S.RAJU ARTS & SCIENCE COLLEGE(A), PENUGONDA II Semester (w.e.f. 2020-21 Admitted Batch)

MICROBIOLOGY	CODE: 20MB2	2020-21	B.Sc.				
Semester – II	MICROBIOLOGY		Time: 3 Hours				
Paper – 11	MODEL QUI	Max. Marks: 75					
(MICROBIAL PHYSIOLOGY AND BIOCHEMISTRY)							
Part – 1 Answer any five questions choosing at least two from each section. Each question							
carries 10 marks.		ast two nom cach se	5x10=50 marks				
Section-A 1. What are Carbohydrates? Write about the Classification of Carbohydrates							
2. Write about classification of Lipids							
3. Describe about the c	3. Describe about the classification of Enzymes						
4. Write about factors effecting Enzyme activity							
5. Describe about Princ	ciples and applications o	f UV-VIS Spectrophoto	metry				
Section-B							
6. Write about SDS PAGE & its Applications							
7. Describe about Nutritional classification of Micro organisms							
8. Write about factors influencing Microbial growth							
9. Write about TCA cycle							
10. What is Fermentation? Write about Ethanol Fermentation							
Part – 2							
Answer any five ques	tions. Each question ca	arries 5 marks.	5x5=25 marks				
11. Amino acids							
12. B-DNA							
13. Lock & key model							
14. Competitive inhibition							

- 15. Chromatography
- 16. Batch cultures
- 17. Measurement of Microbial growth
- 18.Electron transport chain

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S.V.K.P & D.K.S.RAU ARTS & SCENCE COLLEGE (A) PENUGONDA-534320, W.G.DI.A.P Phone : 08819 - 246126 / 246926

Website : www.svkpandksrajucollege.org.in S.V.K.P. & Dr. K.S. RAJU ARTS & SCIENCE COLLEGE

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MICDODIOLOGI			
MICROBIOLOGY	CODE: 19MB3	2020-21	B.Sc.
Semester – III	MICROBIOLOGY		Time: 3 Hours
Paper 3			

Paper -3

MODEL QUESTION PAPER

Max. Marks: 75

(MICROBIAL GENETICS AND MOLECULAR 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. Describe the experiment of Harshey and Chase and Griffith to proven that DNA as a genetic material ?

2. Explain the Semi conservative mechanism of DNA and write the Enyme involved in Replication ?

3. Write the mechanism of Transcription in Prokaryotes ?

4. What are the types of RNA & their functions ?

5. Write about protein Synthesis?

Section-B

6. Explain Genetic code & its properties ?

7. What are the types of Mutations causing DNA ?

8. Explain of DNA damage & its repair mechanism ?

9. What are the gene cloning methods and explain the mechanism ?

10. Give the general account on application of genetic engineering in industry, agriculture & medicine?

Part – 2

Answer any five questions. Each question carries 5 marks.

- 11. Plasmids
- 12. RNA Polymerase
- 13. Lac-operon
- 14. Transformation
- 15. Polymerase chain reaction
- 16. Structural genes
- 17. promoter sequences
- 18. Inhibitors of protein synthesis

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5x5=25 marks

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			R Sc
MICROBIOLOGY	CODE:19MB4	2020-21	B.Sc.

Semester - IV

MICROBIOLOGY (IMMUNOLOGY AND MEDICAL MICROBIOLOGY) (19MB4)

MODEL QUESTION PAPER

Max. Marks: 75

Time: 3 Hours

Paper – 4

Part – 1

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

Section-A

Section

1. Explian the types of immunity?

2. What are the secondary lymphoid organs. Explain them ?

3. What is the concept of hyper sensitivity?

4. What are the properties and functions of immunoglobulins?

5. Explain the Normal flora of human body ?

Section-B

6. Explain the general methods of laboratory diagnosis?

7. How streptomycine acts as an Anti bacterial agent ? Explain it?

8. What are the tests for Antimicrobial susceptibility?

9. Write about Tuberculosis disease ?

10. Explain malarial disease ?

Part – 2

Answer any five questions. Each question carries 5 marks.

11. Neutrophils

12. Complement fixation

13. Nosocomial infection

14. Amphotericin

15. Monoclonal antibodies

16. Candidiasis

17. Vaccines

18. Pathogenecity

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5x5=25 marks

5x10=50 marks