

f. Books recommended:

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| 1. Textbook of Microbiology - | R. Ananthanarayan |
| | C. K. Jayaram Panikar |
| 2. A Textbook of Microbiology - | P. Chakraborty |
| 3. Textbook of Medical Microbiology - | Rajesh Bhatia & Itchpujani |
| 4. Textbook of Medical Microbiology - | Arora and Arora |
| 5. Textbook of Medical Parasitology - | C. K. Jayaram Panikar |
| 6. Textbook of Medical Parasitology - | Arora and Arora |
| 7. Textbook of Medical Parasitology - | S.C.Parija |
| 8. Microbiology in clinical practice - | D. C. Shanson |
| A Textbook of Parasitology - | Dr. R.P. Karyakarte and Dr. A.S. Damle |

Reference books:

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| 1. Mackie McCartney practical Medical Microbiology- | Colle JG , Fraser AG |
| 2. Principles of Bacteriology, Virology & Immunology vol. 1,2,3,4,5- | Topley Wilsons |
| 3. Medical Mycology (Emmons)- | Kwon – Chung |
| 4. Review of Medical Microbiology (Lange)- | Jawetz |
| 5. Immunology- | Weir DM |
| 6. Medical Microbiology- | David Greenwood, Richard Stack, John Penzance |
| 7. Parasitology- | KD Chatterjee |
| 8. Medical virology- | Timbury MC |
| 9. Mackie McCartney Medical, Microbiology vol.1- | Duguid JP |
| 10. Microbial infections- | Marmion BP, Swain RHA |

5. Evaluation

a. Methods

Theory, Practical & Viva

No		Total marks
1	Theory (2 papers – 40 marks each)	80
2	Oral (Viva)	15
3	Practical	25
4	Internal assessment (theory –15, practicals –15)	30
	TOTAL	150

Passing : A candidate must obtain 50% in aggregate with a minimum of 50% in Theory including oral and minimum of 50% in practicals and 50% in internal assessment (combined theory and practical).

b. Pattern of Theory Examination including Distribution of Marks, Questions, Time.

Nature of Question Paper

- Total duration - 4 hrs (each paper of 2 hrs or 120 minutes)
- Each paper will have 3 sections

Suggested pattern and marking for each paper of 40 marks

Sections	Nature of Questions	Total No. of Questions	Mark (s) per Question	Total Marks
A)	Multiple Choice Questions (MCQs) SBR = 28	28	$\frac{1}{2}$	14
B)	Short Answer Questions (SAQs)	6 out of 7	2	12
C)	Long Answer Question (LAQ)	2 out of 3	7	14
Total				40

* One compulsory question of 7 marks on applied Microbiology in each paper.

Paper I - Related to General Microbiology & Systematic Bacteriology

Paper II – Related to Parasitology, Mycology, Virology & Immunology

c. Topic distribution

A) MICROBIOLOGY PAPER I

- General Microbiology
- Systematic bacteriology including Rickettsia, Chlamydia and Mycoplasma
- Related applied microbiology.

B) MICROBIOLOGY PAPER II

- Parasitology
- Mycology
- Virology
- Immunology
- Related applied Microbiology.

d. Marking scheme

Each paper of 40 marks as shown in the above table.

e. Nature of practicals and duration

Practical examination in MICROBIOLOGY will be of 26 marks and oral (viva) of 14 marks of THREE hours duration.

Q.1: Gram staining	5
Q.2: Zeil – Nelson's staining	5
Q.3: Stool examination for Ova/cyst	6
Q.4: Spot identification (Ten spots)*	10
Total-	26

(*Spots- Microscopic slides, Mounted specimen, Instruments used in laboratory, Serological tests, Inoculated culture medium, Sterile culture medium, Vaccines / serum).

f.	Viva (Two tables)	Marks
	A: General & Systemic Microbiology	7
	B: Mycology, Parasitology, Virology, Immunology	7

g. Plan for internal assessment

Marks for Internal Assessment:

Theory :	15
Practical:	15

From the batches which have joined before June 2001

Theory examination

Internal assessment for theory shall be calculated on the basis of two term ending examinations (Ist & IInd), two mid term examinations in Ist & IInd term & one preliminary examination at the end of the course (total 5 examinations) till the batch of Nov.2000 admission appears for University examination.

Marks Distribution for theory examination: (Internal assessment)

Examination	MCQ		SAQ		LAQ		Total	Time
	Marks	No.	Marks	No.	Marks	No.		
Ist & IInd midterm	10	20	20	10/12	-	-	30	1 hr
Ist & IInd term	28	56	24	12/14	28	4/5	80	3 hr

MCQ = Multiple choice questions, SAQ = Short answer questions, LAQ = Long answer questions

Preliminary examination (as per the University pattern – 2 papers, 3 h each) 80 marks

Internal assessment marks for theory will be computed to 15 out of total 300 marks.

Practicals (Internal assessment):

Three term ending practicals only.

Marks Distribution of Practicals:

I st term ending examination	40
II nd term ending examination	40
Preliminary Practical examination	40
Total-	120

Internal assessment marks for Practicals have to be computed out of 12 marks at the end of the curriculum and add marks for journals out of 3. Thus, total marks for practical assessment will be 15.

From the batches joining in June 2001 and later

Pattern for computation of ' Internal Assessment ' in the subject of Microbiology.

(Applicable to the batch joining in June 2001)

THEORY:

Internal assessment shall be computed on the basis of three term ending examinations

(two terminals & one preliminary examination before the university examination).

EXAMINATION	No.of Papers	Pattern	Duration of each paper	Total Marks
1 ST TERMINAL	One -50 Marks	MCQs- 28(14 Marks) SAQs- 10/12 (20 Marks) LAQs- 2/3 (16 Marks)	2 Hours 30 Minutes	50
2 ND TERMINAL	One - 50 marks	MCQs- 28(14 Marks) SAQs- 10/12(20Marks) LAQs- 2/3 (16 Marks)	2 Hours 30 Minutes	50
PRELIMINARY (As per final University pattern)	Two - 40 marks each	Each paper- MCQs- 28(14 Marks) SAQs- 6/7(12Marks) LAQs- 2/3 (14 Marks) (Total- 40 Marks, each paper)	2 Hours each paper	80
TOTAL				180

Final internal assessment in THEORY shall be computed on the basis of actual marks obtained out of 180, reduced to marks out of 15.

PRACTICAL:

Internal assessment in PRACTICALS shall be computed on the basis of three term ending examinations and the marks allotted to practical record book.

EXAMINATION	PATTERN	MARKS	TOTAL
1 ST TERMINAL	Exercise(eg.Gram's Stain)	10	40
	Spotting	10	
	Viva	20	
2 ND TERMINAL	Exercise/Exercises(eg.Gram's & Z.N. Stain)	10	40
	Spotting	10	
	Viva	20	
PRILIMINARY EXAM As per University pattern	Gram's Stain	5	40
	Ziehl-Neelson Stain	5	
	Stool Exam.	5	
	Spotting	10	
	Viva	15	
TOTAL			120

Actual marks obtained out of 120 shall be reduced to out of 12. Add marks obtained out of 3 for Practical Record Book. Total internal assessment marks for Practical shall be out of (12+3) 15.

Total Internal Assessment : Theory --- 15

Practical -- 15

Total: 30

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