THE WEST BENGAL UNIVERSITY OF HEALTH SCIENCES



WBUHS

MICROBIOLOGY LOGBOOK FOR 2ND PROFESSIONAL MBBS STUDENT

AS PER
COMPETENCY BASED CURRICULUM

PERSONAL DETAILS

Name of the student

Date of Birth

Date of admission to MBBS Course

Date of beginning of the Phase II

Roll no / College ID

Reg. No// University ID

Email ID of student

Mobile no of student

Name of Father/Mother

Mobile no. of Father/Mother

Present place of accommodation

Permanent address

LOGBOOK CERTIFICATE

DEPARTMENT OF MICROBIOLOGY

This is to certify that Mr/Ms	
Reg. No	
has not completed all assignments / requires subject of Microbiology during the period He / She is / is not eligible to appear for to given below.	rements mentioned in this logbook in the l fromto
Signature of Faculty / In Charge	
Name and Designation	
	· HOD Microbiology
	Principal
Place:	
Data	

OVERVIEW OF THE TEACHING SCHEDULE IN MICROBIOLOGY

Phase	Teaching hours (Lectures)	Tutorials/ Seminars/ Integrated Teaching	Self-Directed Learning	Total
II	70 hours	110 hours	10 hours	190 hours

OVERVIEW OF THE INTERNAL ASSESSMENT SCHEDULE IN MICROBIOLOGY

Phase II	Internal Assessment : 3	Theory 100 marks Practical 100 marks
		Practical 100 mar

Eligibility for appearing in University Examination

- Attendance requirements are 75% in theory and 80% in practical
- 50% combined in theory and practical (not less than 40% in each) in Internal Assessment is required for appearing in University Examinations.
- Internal assessment marks will reflect as separate head of passing at the University examination mark sheet.

GENERAL INSTRUCTIONS FOR STUDENTS

- 1) The logbook is a record of the academic / co-curricular activities of the designated student.
- 2) The student will be responsible for maintaining his/her log book which will include activities like:
 - Overall participation & performance
 - Attendance
 - Participation in sessions
 - Record of completion of pre-determined activities.
 - · Acquisition of designated competencies.
 - Compulsory acquisition of all certifiable competencies
- 3) The student is responsible for getting the entries in the log book verified by the Faculty in charge regularly.
- 4) Entries in the log book shall be scrutinized by the Head of the Department
- 5) The log book shall be verified by the college before submission of students' eligibility for the University examination

GLOSSARY OF IMPORTANT TERMINOLOGIES

Log book: is a *verified record* of the progression of the learner documenting the acquisition of the requisite knowledge, skills, attitude and/ or competencies.

Portfolio: A portfolio is an evidence of events documented in the log book. It includes selected assignments, self-assessment, feedback, work-based and intraining formative assessments, reflections and learning from planned activity in the curriculum.

Activity: This term refers to a predefined task performed by learners that contributes to the achievement of stated objectives or competencies.

Attempt at activity by learner: Indicate if:

- a) First attempt (F) / only attempt
- b) Repeat (R) of a previously done activity
- c) Remedial activity (Re) of the previously not adequately / appropriately done activity

Rating of attempted activity by faculty -. Use one of three grades:

- a) Below expectations (B);
- b) Meets expectations (M)

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c) Exceeds expectations (E)

Decision of faculty regarding attempted activity

- a) C: activity is completed, therefore closed and can be certified, if needed
- b) R: activity needs to be repeated without any further intervention
- Re: activity needs remedial action (usually done after repetition did not lead to satisfactory completion)

Feedback: Feedback is a formal active interaction performed at the completion of an observed activity (or activities) intended to facilitate positive change, growth and improvement of the learner through guided reflection of activity (ies) performed.

COMPETENCIES INCLUDED IN LOG BOOK

- Skill competencies that have Performance (P)
- Selected skill competencies with Shows How '(SH)' in the psychomotor and communications domains
- Competencies which require documentation of self-directed learningreflections, narrative and creative writing experiences, participation in group activities such as seminars, symposia etc.
- Competencies that require documentation of collected clinical or laboratory experiences, predetermined patient or community interactions and field visits

INDEX

Sl no.	Topics/ systems	No of Competencies
1	General Microbiology and Immunology	1
	Integration with Medicine	1
	Integration with Dermatology	2
		1
	Integration with Pediatrics	CAC .
2	CVS and Blood	2
	Integration with Medicine	2
3	Gastrointestinal and Hepatobilliary system	1
	Integration with Pediatrics	1
	Integration with Medicine	2
4	Central Nervous System Infections	1
	Integration with Pathology	1
	Integration with Pediatrics	1
5	Respiratory Tract Infections	2
	Integration with medicine	4
	Integration with Respiratory Medicine	2
	Integration with Pediatrics	3
6	Zoonotic Diseases and Miscellaneous	4
	(Collection, storage and Transport of	4
	Specimen)	3
	Integration with Medicine	3
7	SDL/Seminars/Projects/Reflections	10

GENERAL MICROBIOLOGY AND IMMUNOLOGY

	Perform and iden						
MI 1.2	diseases by Gran	n Stain,	ZN stain	and sto	ol routi	ne mic	roscopy
	(Certifiable skill-	5 times)					
Name of Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 1.2.1	• Prepare the smear from the specimen provided						
	• Perform Gram stain of the smear provided following the steps						
	as instructed, correctly • Identify the		T T	or Ferre			
	morphology / staining characteristics of		11/1	edal zan	Cymr	Death	1
	the organisms by Gram stain						
5 see 8							

NB: Gram Stain - a) From Gram Positive Cocci

- b) From Gram Positive Bacillus with Spore
- c) From GNB Gram Negative Bacilli.
- d) Clinical Sample-Pus
- e) CSF

MI 1.2 PE 34.11	Perform and identif Gram Stain, ZN sta	ain and sto	ol routin	e microsco _l	py (Certifi	able – 5	eases by times)
Name of Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 1.2.2 PE34.11.1	 Perform ZN stain of the smear provided following the steps as instructed, correctly Identify the causative agents (morphology, staining characteristics) by ZN stain 						
* a ,	G.						
.*							

ZN Stain: a) Co

a) Conventional - Two Classes

b) Modified - One Class - for identification

MI 1.2	Perform and identi Stain, ZN stai	fy the different and stool r	ent causat	croscopy(C	of Infection Certifiable	us diseases skill – 5 tin	s by Gram nes)
MI 3.2		e common et					
IM 16.9	Identify the paras	sitic agents c	ausing di	arrhea and stool sampl	dysentery e	from the p	provided
Name of Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 1.2.3							
MI 3.2.1							
IM 16.9.1	Record macroscopic findings of the stool sample provided						
	Prepare a wet (saline and iodine) mount						
	of stool sample provided						
200 g	Observe the prepared wet						
	mounts under the microscope						
	• Identify the causative agents present.						
4	V70						

- a) Routine Stool Examination (Both Macroscopic & Microscopic Examination)
 - i) Saline Preparation
 - ii) Iodine Preparation
- b) Adult Parasite Identification.

INTEGRATION WITH DERMATOLOGY

Case scenario DOAP Identify Staphylo-	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR	pp. from c Decision of faculty	Initial of faculty and	Feedback Received
Staphylo-			Numerical Score	C/R/Re	date	Initial of learner
coccus from the provided Gram stained						
smear.						
	Gram	Gram stained	Gram stained	Gram stained	Gram stained smear.	Gram stained smear.

a) Gram stain from the colony

b) Catalase test

c) Coagulase test

Consider both Staphylococcus aureus and CONS.

DEPRESENTE OF THE SERVED OF TH

DR 7.2	Identify Cand	lida spp.i	n funga	l scrapir	igs and I	KOH mo	ount
Name of Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
DR 7.2.1	Identify Candida spp. in • Fungal scrapings from skin, nails and hairs in KOH mounts						
Cax.	*						
4							

Identification of candida by

a) KOH mount

b) Gram Staining from Culture.

CVS AND BLOOD

MI 2.3	Identify the mi	crobial a and I	gents ca nfective	using Rh Endocar	eumatic ditis	Heart	
Name of Activity	Case scenario DOAP	Date completed: dd/mm/yy	Attempt	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 2.3.1	Identify the microbial agents causing				2		
	 Rheumatic Heart Disease Infective Endocarditis 						
	• Interpret the result of given serology (ASO) in						
	relation of RHD						

a) Blood Culture

- b) Subculture in blood agar Alpha(α) and Beta(β) haemolytic colony
- c) Gram Staining
- d) Identification
- e) ASO test

INTEGRATION WITH MEDICINE

IM 4.26	Co	ounsel the p	oatient on	malaria p	oreventio	n	
Name of Activity	Role Play	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
IM 4.26.1	Demonstrate counselling a patient on malaria prevention						
			•				
0.8	2						
*							

WBUHS: Microbiology

MI 2.6	Identifi	y the causa	o ugom				
Name of Activity	Observation under microscope	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 2.6.2 • Identify the causative agents of filariasis from the stained smear							
	provided						
· · · · · · · · · · · · · · · · · · ·	9						-
.2.		*					
							**

GASTROINTESTINAL AND HEPATOBILIARY SYSTEM

MI 3.2	Identify th	e common e	etiological	agents of	diarrhea	lit.	
Name of Activity	Case scenario DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Received Initial of learner
MI 3.2.2	• Identify the bacterial agents causing diarrhea and dysentery from culture findings						
	П						
M	9						

- a) Transport media
- b) Culture on selective/enrichment media
- c) Gram Staining
- d) Hanging drop
- e) Biochemical test
- f) Further identification

Integration with Pediatrics and Internal Medicine

PE 24.12 IM 16.10	Sto	ol examina	tion to ide	entify Vib	rio cholei		
Name of Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
PE 24.12.1:	 Prepare wet mount of stool sample Interpret the findings 						
			•				
PE 24.12.2:	Perform hanging						
IM 16.10.1	drop for motility						
*							= ==

INTEGRATION WITH MEDICINE

IM 5.17	Enumerate	the indicat	tions, prec	autions a for hepat	nd counsel itis	patients	on
Name of Activity	SGD Role play	Date completed: dd/mm/yy	Attempt	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
IM 5.17.1	 Enumerate the indications for vaccination against viral hepatitis Indicate the precautions against viral hepatitis Counsel patients on vaccination for hepatitis 						
* 194	•						
4							
							18

CENTRAL NERVOUS SYSTEM INFECTIONS

MI 5.3		entify the mi					S 820 300
PA 35.3	Identify the etiology of						- 1 time)
PE 30.21	Inter	rpret and ex	plain the f			sis	
Name of Activity	BACTERIAL AGENTS Case scenario and laboratory reports indicating bacterial meningitis to be provided DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 5.3.1	Identify the agents causing meningitis from					7	
	 Wet mount Gram stain of the CSF sample provided 						
MI 5.3.2 PA 35.3.1 PE 30.21.1	• Identify the agents causing bacterial meningitis from						
	• Culture findings • Interpret						
	laboratory findings						
2907							
7							

a) Discuss in Chart with Clinical correlation sp.

b) Discuss steps for laboratory diagnosis

MI 5.3	Id	entify the mi	crobial ag	ents causir	ng meningi	tis	
PA 35.3	Identify the etiolo						able -1)
PE 30.21		erpret and ex					
Name of Activity	FUNGAL AGENTS Case scenario and laboratory reports indicating fungal meningitis to be provided	Date completed: dd/mm/yy	Attempt at activity F/R/Re		Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 5.3.3	DOAP Identify the agents causing meningitis from						
	 Wet mount Gram stain India Ink preparation of the CSF sample provided 						
MI 5.3.4 PA 35.3.2 PE 30.21.2	Identify the agents causing fungal meningitis from						
7 33 j	Culture findings Interpret laboratory report provided						
.9		5					

a) Discuss in Chart with Clinical correlation sp.

b) Discuss steps for laboratory diagnosis

MI 5.3 PA 35.3	Identify the etiology	entify the mi					e – 1 time)
PE 30.21	Inte	rpret and ex	plain the f	indings in	a CSF anal	ysis	
Name of Activity	VIRAL AGENTS Case scenario and laboratory reports indicating viral meningitis to be provided	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 5.3.5 PA 35.3.3 PE 30.21.3	 Enumerate the agents causing viral meningitis Interpret the laboratory report 				Δ.		
						1	
	:						
79							

MI 5.3 PA 35.3	Identify the etiology	entify the mic			3744 POSS		le-1time)
PE 30.21	Inte	rpret and exp	olain the f	indings in a	CSF analy	vsis	
Name of Activity	MYCOBACTERIAL AGENTS Case scenario and laboratory reports indicating tubercular meningitis to be provided DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re		Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 5.3.6 PA 35.3.4 PE 30.21.4	 Identify the agents causing meningitis from the Acid fast stain of the CSF sample provided Interpret the 						
	laboratory report						
							E ^N
*							
							/81.

Respiratory Tract Infections

MI 6.2	Identify the common etiological agents of upper respiratory tract infections (Certifiable -3 times)										
Name of Activity	Case scenario DOAP Gram Stain Albert Stain	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner				
MI 6.2.1	Perform Gram stain Identify the etiologic agents of URTI										
	17		•								
MI 6.2.2											
	Perform Albert Stain										
,	• Identify the etiologic agent of URTI										
.7		- ,									
**	- 16.9 41										
		Lande									

MI 6.3	Identify the common e	tiological ag &	ents of lov Ziehl Nee	ver respirate lsen stain)	ory tract in	fections (C	aram Stain
IM 3.14				e -3 times)			
IM 4.13	Perfo	orm and inter	rpret sput	um in Gram	stained sm	ear	
CT 1.10	Perfo	orm and inter	rpret AFB	stain (Certi	fiable – 1 ti	me)	
Name of Activity	Case Scenario DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 6.3.1 IM 3.14.1 IM 4.13.1	• Perform Gram stain of the specimen provided						
	• Identify and interpret the etiologic agents of LRTI based on the						52
	smear prepared						
· 25 =							,
*							
	1 2						it s

MI 6.3	Identify the common	etiologic age	nts of low	er respirat	ory tract in	fections (C	ram Stain				
	Assessed II Co. L.C.			lsen stain)							
IM 3.14	arta Substantif Laire .	122		e -3 times)		197					
IM 4.14		form and int									
CT 1.10	Perform and interpret an AFB stain(Certifiable - 1 time)										
Name of Activity	Case Scenario DOAP ZN Stain	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Oecision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner				
MI 6.3.2											
IM 3.14.2	Perform Z N stain						1				
IM 4.14.1	of the specimen										
CT 1.10.1	provided										
	• Interpret ZN stain										
	for Acid fast bacilli										
)										
			•				5				
					1						
					1.3						
10											

a) Sputum — Z-N Stain

- b) Culture in L J media
- c) Discuss identification by Conventional and Newer Techniques

IM 4.20	Interpret a Mantoux test Interpret a Mantoux test(Certifiable – 3 times)										
PE 34.7 CT 1.7	Perform and interpret the PPD test and describe and discuss the indications and pitfalls of the test										
Name of Activity	SGD Flash Cards	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner				
CT 1.7.1	Perform Mantoux test				=						
IM 4.20.1 PE 34.7,1											
CT 1.7.2	• Interpret the Mantoux test										
	ã										
							×				
							_				
24											
4											
CT 1,7.3	 Discuss the indications and pitfalls of the test 										

INTEGRATION WITH PEDIATRICS

PE 34.9	Interpret bloo	d tests in the o	context of	laboratory	evidence fo	or tubercul	losis
Name of Activity	SGD	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
PE 34.9.1	• Interpret Blood test reports as laboratory evidence for tuberculosis						

PE 34.6		Identify a B	CG scar(C	ertifiable -	1 times)		
Name of Activity	SGD	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
PE 34.6.1	• Identify the BCG scar						
5 4 .5	7						
9.							S.
					n es 8) Y =	

Zoonotic Diseases and Miscellaneous

MI 8.7		rtifiable - 3 ti	mes in Ha	and Hygien	rsonal Prot e & 3 times	in PPE)	lipments
Name of Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 8.7.1	Demonstrate hand washing and hand hygiene practices						7
	6						
a _y	*						
4	-						¥.
	- 100						

MI 8.7	Demonstrate Infect		(PP)	E)			ipments
Name of Activity	DOAP SGD	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	3 times in Decision of faculty C/R/Re	PPE) Initial of faculty and date	Feedbac Receive Initial o learner
MI 8.7.2	Demonstrate donning and				F - F		
	doffing of PPE						
			•				
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							E.
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Name of	Demonstrate Infect		e de la constante de la consta	E)			20
Activity	DOAP	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 8.7.3	Demonstrate proper segregation of biomedical waste	,					
	,		•				
ς,							
	,						
						- 1/2	
7							

MI 8.11	Demonstrate respective laboratory tests in	et for patient the detectio	samples s n of micro	sent to the l bial agents	laboratory s causing in	for perforn fectious di	nance of seases.
Name of Activity	SGD Role Play	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 8.11.1	Demonstrate proper method of transportation of patients' samples to the laboratory Demonstrate the				12		
	proper method of storage of patients' samples						
- 0	,						
*							19

COLLECTION, STORAGE AND TRANSPORT OF CLINICAL SPECIMEN

MI 8.10 Demonstrate the appropriate me	thod of collec	-1. 6										
Demonstrate the appropriate me		ction of sa	amples i	in the								
IM 1.22 performance of laboratory tests	n the detection	on of mic	robial a	gents								
- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	causing Infectious diseases											
	Assist and demonstrate the proper technique in collecting specimen for blood culture											
Assist in the collection of	f blood and w	vound cu	lture									
Assist in the collection of blo	od and other	specimen	n culture	es								
Name of Case scenario Date Attem		10-7-10-7-10-30-70	CONTRACTOR OF THE VOICE									
Activity Role play DOAP Completed: at activity F/R/R	B/M/E OR	of faculty	Initial of faculty and date	Received Initial of learner								
MI 8.10.1 Demonstrate the												
IM 25.9.1 method of collection of samples in the												
laboratory												
IM 1.22.1 A. Blood for culture												
IM 4.19.1 B. Blood for serology												
D. Blood for Scrology												
IM 25.9.1 C. Swab sample												
- Throat												
- Nasopharyngeal												
- Aural												
- Rectal												
- Vaginal												
MI 4.19.2 – Wound swab												
D. Pus aspirate												
E. CSF												
F. Sputum												
G. BAL												
H. Endotrahceal												
tube												
I. Urine for culture, R/E												
.7												

MI 8.15	Choose and Inter	pret the resul	infectious	disease	ests used in		
Name of Activity	Laboratory Report Case Scenarios	Date completed: dd/mm/yy	Attempt at activity F/R/Re	Rating B/M/E OR Numerical Score	Decision of faculty C/R/Re	Initial of faculty and date	Feedback Received Initial of learner
MI 8.15.1	• Interpret the results from different serological tests A. Latex agglutination B. ELISA C. ICT D. Widal						¥ K
	E. RPR		,				
			The same				
	3						
							- 1
4							

Topics for SGD/SDL

Sl. no	Competency addressed	Datecompleted dd/mm/yy	Initial of faculty and date	Feedback Received Initial of learner
1.	MI 1.4 Classify and describe the different methods of sterilization and disinfection. Discuss the application of the different methods in the laboratory in clinical and surgical practices.			
2.	MI 8.4 Describe the etiologic agents of emerging infectious diseases, Discuss the clinical course and diagnosis			
3	MI8.6 Describe the basics of infection control			
4.	MI 8.8 Describe the methods used and significance of assessing the microbial contamination of food,water and air.	•		
5	MI8.9 Discuss the appropriate methods of collection of samples in the performance of laboratory test in detection of microbial agents causing infectious disease			
6	MI 8.13 Choose the appropriate laboratory test in the diagnosis of infectious disease			
7	MI 8.15 Choose and interpret the results of the laboratory test used in diagnosis of infections discase (to be followed by SGD)			
8	MI 8.12 Discuss confidentiality pertaining to patient to identity in laboratory results			
9	MI 7.2 Describe the etiopathogenesis and discuss the laboratory diagnosis of STI. Recommend preventive measures			
10.	MI 8.16 Describe the National Health program in Prevention of Common infectious disease. (For information purpose)			45

ATTENDANCE RECORD

Phase	Theory Class Total	Theory Class Attended	Percentage Theory Class Attended	Practical Total	Practical Attended	Percentage Practical Class Attended
Professional Year II (Term I)						Ī.
Professional Year II (Term II)					5	
Professional Year II(Term III)						
Professional Year II(Total)						

Signature of the Student

Signature of Faculty in Charge

Signature of Head Department of Microbiology

RECORDS OF INTERNAL ASSESSMENT EXAMINATIONS

Assessment	Date	Theory	Date	Practical including Viva	Signature of student	Signature of teacher
SECOND PROF						1
1st Internal Assessment						
2 nd Internal Assessment		<i>p</i>				
3rd Internal Assessment						
Aggregate of IA 2 nd Professional						
Grand Aggregate of Internal Assessment Marks						
Remedial examination if any						
Marks from FA Log book	14					
Final Internal Assessment Marks (to be submitted to University)						

Signature of Principal

4

Signature HOD, Microbiology

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