MIC	C 10	Reg. No	•••••	•••
CRE	EDI	Γ BASED FIRST SEMESTER B.Sc. DEGREE EXAMINATION - OCT MICROBIOLOGY	OBER	2012
Dur	atio	GENERAL MICROBIOLOGY n: 3 Hours Max Mark	.a. QA	
			72: OA	
Note	e: L	Draw diagrams wherever necessary.		
_		PART A	2 10	20
I.		swer any <u>TEN</u> of the following: Resolving Power	2x10=	=20
		Mordant		
		Acid Fast Bacteria		
		Hargobind khorana		
	,	TEM		
	f)	Decolourizer Beijerinck		
		Dairy Microbiology		
	i)	Incineration		
		Antimicrobial Agent		
		Iwanowsky		
	1)	Dyes PART-B		
		UNIT-I		
Ansv	wer	any TWO complete questions of the following:	10x2=	20
II.	a) b)	Discuss the contributions of Robert Koch to the development of Microbio Discuss briefly on the branches of Microbiology.		06 04
III.	a) b)	Discuss the contributions of Alexander Flemming and Waksman to the development of Microbiology. Write a brief note on significance of Microbiology as a modern science.		06 04
		•		
IV.	a) b)	Write a note on Pasteurization. Write a note on Spallanzani.		06 04
		UNIT-II		
Ansv	wer	any TWO complete questions of the following:	10x2=	20
V.	a) b)	Discuss the principle and construction of Dark Field Microscope. Write a note on Negative Staining.		06 04
VI.	a) b)	Write the principle and procedure for Gram Staining. Write a brief note on student microscope.		06 04
VII.	a) b)	Explain the principle and procedure for Endospore Staining. Write a note on Scanning Electron Microscope.		06 04
		HINDER HI		
Ansv	wer	UNIT-III any TWO complete questions of the following:	10x2=	20
VIII	a) b)	Discuss dry heat as a physical agent for sterilization. Write a note on metallic salts as sterilizing agents.		06 04
IX.	a) b)	Discuss phenols and aldehydes as chemical sterilants. Write a note on non-ionising radiation as physical sterilants.		06 04

Discuss alcohols and quarternary ammonium compounds as antimicrobial agents.06 Discuss the characteristics of an ideal antimicrobial agent. 04

X.

a) b) *****

MIC	101	Reg. No	•••••	•••
CRE	EDIT	F BASED FIRST SEMESTER B.Sc. DEGREE EXAMINATION - OCTO MICROBIOLOGY	OBER	2013
Dur	atio	GENERAL MICROBIOLOGY n: 3 Hours Max Mark	s: 80	
		Draw diagrams wherever necessary.	S . 00	
1100		PART A		
I.	An	swer any <u>TEN</u> of the following:	2x10	=20
		Iwanowsky		
		Mordant		
		Basic Stain		
		Formaldehyde Waksman		
	r)	Biogenesis		
	s)	Magnification		
	t)	Electron Microscope		
		Agricultural Microbiology		
	v)	Incineration Numerical Aperture		
		Indirect Staining		
	11)	PART-B		
		UNIT-I		
Ansv	wer	any TWO complete questions of the following:	10x2=	=20
II.	a) b)	Discuss the contributions of Louis Pasteur to the development of Microbio Write a note on Koch's Postulates.	ology.	06 04
III.	a)	Discuss the scope and significance of Microbiology as a modern science.		06
	c)	Write a note on Felix De'Herell.		04
IV.	a)	Explain the contributions of Alexander Flemming to the Development		
1,.	u)	of Microbiology.		06
	b)	Write a note on Joseph Lister.		04
		UNIT-II		
Ansv	wer		10x2=	=20
V.		•		06
٧.	a) b)	Write a brief note on Negative Staining. Write a note on Transmission Electron Microscope.		04
		•		
VI.	a)	Discuss the principle and construction of Phase Contrast Microscope.		06
	b)	Write the principle of Gram Staining.		04
VII.	a)	Write a brief note of Flagellar Staining.		06
	c)	Write briefly on Student Microscope.		04
		UNIT-III		
Ansv	wer		10x2=	=20
VIII	a)	Discuss moist heat as a physical agent for Sterilization.		06
, 111.	c)	Write a note on Halogens as Antimicrobial Agents.		04
IV				06
IX.	a) b)	Discuss dyes and metallic salts as chemical sterilants. Discuss the characteristics of an ideal antimicrobial agent.		06 04
37				
Χ.	a)	Discuss radiation as physical method of sterilization.		06

b)	Write a note or	surface active	agents.

06

MIC	101	.1 Reg. No	••••••
CRE	EDIT	BASED FIRST SEMESTER B.Sc. DEGREE EXAMINATION - OCT MICROBIOLOGY	OBER 2014
Dum	ation	GENERAL MICROBIOLOGY 1: 3 Hours Max Mark	.a. QA
			ZS: 8U
Note	e: D	raw diagrams wherever necessary.	
_		PART A	
I.		swer any <u>TEN</u> of the following:	2x10=20
	,	Louis Pasteur Surface Active Agents	
	-	Broth	
	-	Waksman	
		Enrichment Media	
		Numerical Aperture	
	-	Species Basic Stain	
		Pour Plate Method	
		Scanning Electron Microscope	
		Abiogenesis	
	JJ)	Synthetic Media	
		PART-B UNIT-I	
Ansv	wer a	any TWO complete questions of the following:	10x2=20
II.	a)	Discuss the contributions of Joseph Lister and Lazzaro Spallanzani.	06
11.	b)	Write a note on Principles of Binomial Nomenclature.	04
III.	a) d)	Discuss the different branches of Microbiology. Write briefly on intuitive method for classification.	06 04
IV.		Discuss the contributions of Alexander Fleming to the development of	
	• `	Microbiology.	06
	b)	Write a note on Ivanovsky and Beijerinck.	04
		UNIT-II	
Ansv	wer a	any TWO complete questions of the following:	10x2=20
V.	a) b)	Discuss the principle and construction of Transmission Election Microsco Write a brief note on Acid-Fast Staining.	ope. 06 04
VI.	a) b)	Discuss sterilization by Dry Heat method. Write a note on compound microscope.	06 04
VII.	a)	Explain the principle and procedure for Gram Staining.	06
	d)	Discuss Phenols and Halogens as Sterilizing Agents.	04
Ansv	wer :	UNIT-III any TWO complete questions of the following:	10x2=20
VIII.		Explain streak plate method and spread plate method for the isolation of	
v 111.	. a)	Microorganisms.	06
	d)	Write a note on Selective and Indicator Media	04

Discuss the methods for preservation of pure culture.

IX. a)

	b)	Write a note on Differential Media and Transport Media.	04
X.	a) b)	Discuss the cultivation of Anaerobic organisms. Classify media based on consistency. ***********************************	06 04
MIC	C 101	.1 Reg. No	•••••
CRE	EDIT	BASED FIRST SEMESTER B.Sc. DEGREE EXAMINATION - OCT MICROBIOLOGY GENERAL MICROBIOLOGY	OBER 2015
Dura	ation		Marks: 80
Note	e: D i	raw diagrams wherever necessary.	
		PART A	
Ι.	kk) ll) mm nn) oo) pp) qq) rr) ss) tt) uu) vv)	wer any TEN of the following: Dairy Microbiology Non-Ionizing Radiation) Gram's Iodine Bergey's Manual Pure Culture Acid Fast Bacilli Lazzaro Spallanzani Indicator Media Binomial Nomenclature Stab Culture Resolving Power Transport Media PART-B UNIT-I	2x10=20
Ansv	wer a	ny TWO complete questions of the following:	10x2=20
II.	a) b)	Discuss the contributions of Louis Pasteur to the development of Microbi Write a note on Numerical Taxonomy.	iology.06 04
III.	a)e)	Discuss the contributions of Joseph Lister and Edward Jenner in the field Microbiology. Write a brief note on Whittaker's Five-Kingdom concept.	of 06 04
IV.	a) b)	Explain the scope and significance of Microbiology as a modern science. Write a note on Koch's Postulates.	06 04
Ansv	wer a	UNIT-II any TWO complete questions of the following:	10x2=20
V.	a) b)	Discuss the principle and construction of Scanning Electron Microscope. Write a brief note on Negative Staining.	06 04
VI.	a) b)	Discuss the construction of a compound microscope with a neat labeled d Explain sterilization by Filtration.	iagram. 06 04
VII.	a) e)	Explain the principle and procedure for Gram Staining. Write a note on Alcohols and Phenols as chemical sterilants.	06 04
		UNIT-III	

VIII.	a) e)	Explain pour plate and spread plate method for the isolation of Microorganisms. Write a note on enriched and enrichment media.	06 04
IX.	a) b)	Discuss any two methods of cultivation of anaerobic microorganisms. Write a note on Lyophilization and Liquid Nitrogen.	06 04
X.	a) b)	Explain serial dilution and streak plate method for isolation of microorganisms. Classify media based on their consistency.	06 04

M	IC 101	Reg.	No
CREDI	IT BAS	SED FIRST SEMESTER B.Sc. DEGREE MICROBIOLOG GENERAL MICROBIO	Ϋ́
, Du	ration	: 3 Hours	Max Marks: 80
No	te: Di	aw diagrams wherever necessary.	· ·
		PART A	
ľ.	Ans	wer any <u>TEN</u> of the following:	2x10=20
	a) I	Broth Culture	
	b) I	Magnification Power	
	c) J	oseph Lister	
	d) \$	Species	•
	e) I	Pure Culture	
	f) l	ncineration	
	g) (Counter Stain	
, ·	h) 1	ndustrial Microbiology	
	i) I	Formaldehyde	
	j)]	Nutrient Agar	•
•	k)]	Numerical Taxonomy	
	1)]	Enrichment Media	•
		PART-B	•
)		Answer any TWO complete questi	ons from each unit
		UNIT-I	
II.	a)	Discuss the contributions of Lazzaro Spal Microbiology.	lanzani and H.Khorana to the field of 06
	b)	Write a note on Intuitive method of classif	ication. 04

Explain the contribution of Alexnder Flemming.

Write a note on Binomial Nomenclature.

Explain Whittaker's five kingdom concept.

Write a note on scope of Microbiology.

III. a)

IV. a)

b)

b)

06

04

06

04

UNIT-II

V.	a)	Briefly explain on Phenols and Aldehydes.	06
	b)	Write a note on dark field microscopy.	04
VI.	a)	Explain the Flagellar staining techniques.	06
	b)	Write a note on the characteristics of an ideal antimicrobial agent.	04
VII.	a)	Explain radiation as a method of sterilization.	06
	b)	Write a note on SEM.	04
		UNIT-III	
VIII	[.a)	Explain the various specialized media used for cultivating Microbes.	06
	b)	Write a note on Lyophilization.	04
IX.	a)	Explain the streak plate and spread plate methods of Microbial Isolation.	06
	b)	Write a note on Anaerobic Jar.	04
X.	a)	Explain the serial dilution technique and pour plate method.	06
	b)	Write a note on use of liquid nitrogen and Gelatin for preservation.	04
