IX.

a)

b)

06

CREDIT BASED FIFTH SEMESTER B.Sc. DEGREE EXAMINATION - OCTOBER 2012 MICROBIOLOGY

IMMUNOLOGY AND MEDICAL MICROBIOLOGY

Duration: 3 Hours Max Marks: 80 Draw diagrams wherever necessary. PART A I. Answer any TEN of the following: 2x10=20Toxic Shock Syndrome a) b) Antigen Monoclonal Antibodies c) d) Coagulase Test e) Immune Response Hypersensitivity f) g) **Typhoid** h) Atopy i) Widal Test **i**) Adjuvants k) **Tube Precipitation Test** 1) **Innate Immunity PART-B UNIT-I** Answer any TWO complete questions of the following: 10x2=20II. Explain the mechanism of Cell Mediated Immune Response. 06 a) Write a note on theories of immune response. 04 b) III. a) Give an account of the classification of Immunity. 06 Write a note on the factors determining immunogenicity of antigens. 04 b) IV. Explain the basic structure of immunoglobulins with a neat labelled diagram. 06 a) b) Write a note on IgM. 04 **UNIT-II** Answer any TWO complete questions of the following: 10x2=20V. a) Classify hypersensitivity reactions. Add a note on anaphylaxis. 06 b) Write a note on agglutination reactions. 04 VI. a) Explain the Hybridoma Technique for production of Monoclonal Antibodies. 06 Write a note on measurement of antigen and antibody. b) 04 VII. a) Explain the different types of Vaccines. 06 b) Write a note on ELISA. 04 UNIT-III **Answer any TWO complete questions of the following:** 10x2=20VIII. a) Explain the characteristics, pathogenesis and laboratory diagnosis of Staphylococcus 06 Write a note on laboratory diagnosis and treatment of HIV. 04 b)

Explain the pathogenesis and treatment of *Plasmodium vivax*.

Write a note on morphology of *Balantidium coli*. 04

X. Explain the pathogenesis and laboratory diagnosis of Candida. 06 a) b) Write a note on Cholera 04 ***** **MIC 501** Reg. No. CREDIT BASED FIFTH SEMESTER B.Sc. DEGREE EXAMINATION - OCTOBER 2013 **MICROBIOLOGY** IMMUNOLOGY AND MEDICAL MICROBIOLOGY **Duration: 3 Hours** Max Marks: 80 Draw diagrams wherever necessary. PART A I. Answer any **TEN** of the following: 2x10=20Streptolysin-S Antigen n) Cholera o) **Natural Immunity** p) Hybridoma q) **ELISA** r) s) Hepatitis A t) Atopy Immunoglobulins u) **Tetanus** v) Ring Test w) T-Cells x) PART-B **UNIT-I** Answer any TWO complete questions of the following: 10x2=20II. 06 a) Explain the mechanisms of Innate Immunity. b) Write a note on factors determining the immunogenicity of antigens. 04 III. Explain the general properties of Immunoglobulin G and Immunoglobulin M. 06 a) Write a note on types of antigens. 04 c) IV. Explain the mechanism of humoral immune response. 06 a) b) Write a note on theories of immune response. Answer any TWO complete questions of the following: 10x2=20V. Classify hypersensitivity reactions. Add a note on the mechanism of a) 06 Type I Hypersensitivity. Define vaccine. List types of vaccines. 04 b) VI. a) Explain the various types of precipitation reactions. Add a note on their applications. 06 Write a note on the applications of monoclonal antibodies. 04 b) VII. a) 06 Explain the hybridoma technique for production of monoclonal antibodies. Write a note on measurement of antigen and antibody reactions. 04 c) **UNIT-III Answer any TWO complete questions of the following:** 10x2=20VIII. a) Explain the pathogenesis of Candida albicans. 06 Write a note on Shigellosis. 04 c) IX. Explain the pathogenesis of Staphylococcus 06 a)

MIC	501	Reg. No	•••••	
	CRE	DIT BASED FIFTH SEMESTER B.Sc. DEGREE EXAMINATION - OCT	OBER 2014	
		MICROBIOLOGY		
D	49	IMMUNOLOGY AND MEDICAL MICROBIOLOGY		
		3 Hours Max Marks: 80		
Note	: Dr	aw diagrams wherever necessary.		
		PART A		
I.	Ansv	ver any <u>TEN</u> of the following:	2x	10=20
	y)	Immune Response		
	z)	Serology		
	aa)	Tetanus		
	bb)	Antibodies		
	cc)	Phage Typing		
	dd)	Adjuvant		
	ee)	AIDS		
	ff)	ELISA		
	gg)	Exotoxins		
	hh)	$I_g E$		
	ii)	Hybridoma		
	jj)	Slide Test		
		PART-B UNIT-I		
Ansv	ver an	y TWO complete questions of the following: 10x2=20		
II.		Discuss the general properties of Immunoglobulins.		06
11.	a) b)	Write a note on Acquired Immunity.		04
	,	•		
III.	a)	Explain the non-immune mechanism of Innate Immunity. Write a note on theories of Immune Response. 04		06
	d)	write a note on theories of minimum Response. 04		
IV.	a)	Define Immunity. Explain its classification.	06	
	b)	Write a note on factors affecting Immune Response.		04
		UNIT-II		
Ansv	ver an	y TWO complete questions of the following: 10x2=20		
				0.0
V.	a) b)	Explain the mechanism and applications of agglutination reactions. Write a note on vaccine preparation.		06 04
	0)	• •		0.
VI.	a)	Explain the mechanism of Type I Hypersensitivity Reaction.		06
	b)	Write a note on general features of Antigen Antibody Reactions.		04
VII.	a)	Explain the types and mechanism of precipitation reactions. Write a note on applications of Monoclonal Antibodies.		06 04
	d)	Write a note on applications of Monoclonal Antibodies.		04

04

06

Write a note on *Tetanus*.

Explain the pathogenic characters and treatment of *Giardia intestinalis*. Write a note on Structure of HIV.

b)

a)

b)

X.

UNIT-III

10x2=20

Answer any TWO complete questions of the following:

VIII.	a) d)	Explain the Pathogenicity and treatment of Candida. Write a note on Escherichia Coli.	06 04
IX.	a) b)	Explain the Pathogenicity, Lab Diagnosis and Treatment of <i>Streptococcus sps.</i> 06 Write a note on <i>Hepatitis</i> .	6 04
X.	a) b)	Explain the Pathogenicity, Lab Diagnosis and Treatment of <i>Giardia</i> . Write a note on <i>Salmonella</i> . ***********************************	06
MIC	501	Reg. No	
	CRE	DIT BASED FIFTH SEMESTER B.Sc. DEGREE EXAMINATION - OCTOBE MICROBIOLOGY PAPER V – IMMUNOLOGY AND MEDICAL MICROBIOLOGY	R 2015
Dura	tion: 3	Hours Max Marks: 80	
Note:	Dr	aw diagrams wherever necessary.	
_		PART A	
I.	Ansv kk)	ver any <u>TEN</u> of the following: Antibody	2x10=20
	11)	Sporozoite	
	,	Monoclonal Antibodies	
	nn)	Oral Thrush	
	00)	Adjuvant	
	pp)	Serology	
	qq)	Immune Response	
	rr)	Enterotoxin	
	ss)	Coombs Test	
	tt)	B-Cells	
	uu)	HIV Anombylovia	
	vv)	Anaphylaxis PART-B	
		UNIT-I	
Answ	er any	TWO complete questions of the following: 10x2=20	
Π.	a) b)	Explain the mechanism of humoral mediated immune response. Write a note on Factors determining the Immunogenicity of Antigens.	06 04
III.	a) e)	Explain the basic structure of Immunoglobulin, with a neat labeled diagram. Write a note on classification of antigens. 04	06
IV.	a) b)	Define immunity. Give an account of the classification of immunity. Write a note on the Immunoglobulin A.	06 04
		UNIT-II	
Answ	er any	TWO complete questions of the following: 10x2=20	
V.	a) b)	Explain the types of Agglutination Reactions. Add a note on the applications. Write the classification of hypersensitivity reactions.	06 04
VI.	a)	List the different types of vaccines and explain the methods of vaccine preparation.	

Write a note on applications of monoclonal antibodies.

b)

06

04

VII. a)	Explain the general features of Antigen-Antibody Reactions. Add a note on the measurement of Antigen and Antibody.	06
e)	Write a note on ELISA for the detection of Antigens.	04
	UNIT-III	
Answer a	ny TWO complete questions of the following: 10x2=20	
VIII. a)	Explain the Pathogenesis and treatment of Escherichia coli.	06
e)	Write a note on <i>Hepatitis B</i> . 04	
IX. a)	Explain the Pathogenesis, Lab Diagnosis and treatment of <i>Trichomonas</i> . 06	
b)	Write a note on <i>Streptolysins</i> . 04	
X. a)	Explain the Pathogenicity, Lab Diagnosis and Treatment of Aspergillus. 06	
b)	Write a brief note on <i>Cholera</i> . 04	

X.

a)

b)

CREDIT BASED FIFTH SEMESTER B.Sc. DEGREE EXAMINATION – APRIL 2016 MICROBIOLOGY

IMMUNOLOGY AND MEDICAL MICROBIOLOGY

Duration: 3 Hours Max			Marks: 80	
Note	: I	Praw diagrams wherever necessary.	•	
		PART A		
ι.	a) b) c) d) e) f) g) h) i) j)	swer any TEN of the following: Expand EPEC Immunoglobulins Epitope Exotoxins Adjuvant Monoclonal Antibodies Traveller's Diarrhoea Immunity Serology IMViC Atopy)=20	
	l)	ELISA Test		
		PART-B		
Aner	UAP	UNIT-I any TWO complete questions of the following: 10x2	=20	
II.	a)	Define and classify antigens. Add a note on the factors determining Immunoger antigens.	nicity of 06	
	b)	Write a note on I _g G	04	
III.	a) b)	Explain the mechanism of Humoral Immune response. Write a note on Acquired Immunity.	06 04	
IV.	a) b)	Explain the basic structure of Immunoglobulins with a neat labelled diagram. Write a note on factors affecting Immune response.	06 04	
		UNIT-II		
Ansv	ver	any TWO complete questions of the following: 10x2	=20	
V.	a) b)	Explain the general features of antigen antibody reactions. Write a note on applications of Monoclonal antibodies.	06 04	
VI.	a) b)	Explain the mechanism of precipitation reaction. Add a note on its applications Write a note on different types of vaccines.	. 06 04	
VII.	a)	Define and classify hypersensitivity reactions. Add a note in delayed type of hypersensitivity reaction.	06	
	b)	Add a note on Agglutination reaction.	04	
Ansv	wer	UNIT-III • any TWO complete questions of the following: 10x2	=20	
VIII.			06 04	
IX.	a) b)	Explain the Morphology and life cycle of <i>Entamoeba histolytica</i> . Write a note on laboratory diagnosis and treatment of <i>Salmonella</i> .	06 04	

Briefly describe the Morphology and pathogenicity of Vibrio cholerae.

Write a note on pigments produced by Pseudomonas.

06

04