UNIVERSITY OF THE PUNJAB

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B.A. / B.Sc. Part – II Supplementary Examination - 2018

Roll No.

Subject: Microbiology-II

PAPER: A

TIME ALLOWED: 2 Hrs. & 20 Min. MAX. MARKS: 40

Attempt this Paper on Separate Answer Sheet provided.

NOTE: Attempt any FOUR questions. All questions carry 10 marks.

- Q.4 Define Immunity. Name two types of immunity and explain the process of phagocytosis in detail? (10)
- Q.5 Write short notes on any two:

(5+5=10)

- a. Hepatitis A
- b. Salmonella typhi
- c. Mycobacterium tuberculosis
- Q.6 Write a note on any one sexually transmitted disease?

(10)

- Q.7 Describe complement system and its types involved in the lysis of bacterial cell? (10)
- Q.8 Explain different stages of Plasmodium falciparum?

(10)

- Q.9 Differentiate between endotoxins and exotoxins? Describe the mechanism of action by toxins produced by Vibrio cholera? (10)
- Q.10 Define the following:

(5x2=10)

- a. Heptens
- b. Virulence
- c. Inflammation
- d. Pathogens
- e. Antibodies

UNIVERSITY OF THE PUNJAB

B.A. / **B.Sc.** Part – II

Supplementary Examination – 2018

Subject: Microbiology-II

PAPER: A

TIME ALLOWED: 40 Min.

Roll No.

MAX. MARKS: 30

Attempt this Paper on this Question Sheet only.

Please encircle the correct option. Division of marks is given in front of each question. This Paper will be collected back after expiry of time limit mentioned above.

Q.1	MCQ	e:		(13)				
i.	Involved in allergies:							
••	(a)	IgG	(b)	IgM				
	(c)	IgA	(d)	IgE				
ii.	Main antibody of both primary and secondary immune response:							
	(a)	IgG	(b)	IgM				
	(c)	IgA	(d)	IgE				
iii.	Which of the following are the isoantigens:							
	(a)	Blood group antigens	(b)	Human leucocyte antigens				
	(c)	Rickettsia antigens	(d)	A & B				
iv.	Corynebacterium diphtheria is and club shaped.							
	(a)	Gram positive cocci	(b)	Gram positive rods				
	(c)	Gram negative rods	(d)	Gram negative cocci				
v.	Main antibody of the complement system:							
	(a)	IgG	(b)	IgM				
	(c)	IgA	(d)	IgE				
vi.	are the antigenic determinants that characterize classes and subclases of							
	heav	y and light chains.						
	(a)	Isotypes	(b)	Idiotypes				
	(c)	Allotypes	(d)	Monotypes				
vii.	Which of the following immunoglobulin is present in highest concentration in plasma:							
	(a)	IgG	(b)	IgM				
	(c)	IgA	(d)	IgE				
viii.	Which element is important in maintaining the structure of immunoglobulin:							
	(a)	P	(b)	S				
	(c)	Ca	(d)	Fe				
ix.	Immunoglobulin J chain is:							
	(a)	Only produced by T cells	(b)	Only produced by neutrophils				
	(c)	Only produced by IgE for	histami	ne release				
	(d) Associated with multimeric forms of IgM and IgA							
x.	Variable region domains are:							
	(a) Needed to bind complement							
	(b) Located at the N-terminus of the heavy chain only							
	(c) Transport across placenta							
	(d) Necessary for specific recognition of antigens							

A	i seddonionas aeruginosa contain pigments:						
	(a)	Pycocyanin	(b)	Fluorescein			
	(c)	Fluorochromes	(d)	A & B	(e)	All of the above	
xii.	Vibrio cholera produce toxins that bind to the and cause rice water diahorrea						
	(a) GII mucosal lining		(b) Nerve cell				
	(c)	Muscle cell	(d)	Hepatocytes			
xiii.	Bacillus anthracis produce toxins that bind to the to cause anthrax.						
	(a)	GIT mucosal lining	(b)	Nerve cell		and the same of th	
	(c)	Muscle cell	(d)	Hepatocytes			
Q.2	Cross Matching					(7)	
	Haptens		Asthma				
	Antibody		Retrovirus				
	Adjuvant		Alum	1			
	AIDs		Antigenic shift and drift				
	Rabies Influenza virus		B Cells Penicillin				
	Hypersensitivity		Rhabdoviridae				
Q.3	Draw	v and label WHITE BLOOD	CELL	S which are the	e majo:	r immune cells? (10)	
					•	(20)	