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BRAINWARE UNIVERSITY

Term End Examination 2024-2025 Programme - B.Optometry-2021/B.Optometry-2022/B.Optometry-2023 Course Name - Ocular Microbiology and Pathology Course Code - BOPTOE305A (Semester III)

Full Marks: 60 Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- Choose the correct alternative from the following:
- (i) Zeihl Neelsen Staining helps to interpret
 - a) Mycobacterium tuberculosis
 - c) Nocardia
- (ii) Identify the Gram negative diplococci
 - a) Neisseria gonorrhoea
 - c) Klebsiella pneumoniae
- (iii) Identify the Gram positive bacilli
 - a) Streptococcus
 - c) Mycobacterium tuberculosis
- (iv) BACTEC System is used to visualize rapid growth of
- a) Mycobacterium tuberculosis
- c) Proteus mirabilis
- (v) Immunoglobulin that develops a protection to the Body fluids
 - - b) IgG

b) Mycobacterium leprae

d) All of these

b) Proteus mirabilis

d) Escherichia coli

b) Staphylococcus d) Escherichia coli

d) None of these

b) Treponema pallidum

d) Active immunization

b) Acute blood loss

d) All of these

b) Administration of antibodies

- d) IgE
- (vi) Select the option that explains the correct cause of Adaptive immunity
 - a) Infection

a) IgM

c) IgD

- c) Administration of lymphocytes
- (vii) Identify the cause of Anemia
 - a) Iron deficiency
 - c) Bone marrow depression
- (viii) Antibody present is Colostrum is
 - a) IgG

 - c) IgD

- b) IgA d) IgM
- (ix) Microorganisms which are harmful to their host are known as
 - a) Commensals

b) Pathogens

	c) Vectors	d) None of these	
(x)	Fimbriae is an organ associated with		
	a) Adhesion	b) Locomotion	
/:\	c) Reproduction	d) Protein synthesis	
(XI)	Skin Biopsy is considered as sample for		
	a) Superficial Mycoses	b) Suncutaneous Mycoses	
	c) Systemic Mycoses	d) All of these	
(xii)	Which part of the bacterial cell wall is responsi complex in Gram-positive bacteria?	ble for retaining the crystal violet-iodine	
	a) Lipid bilayer	b) Outer membrane	
	c) Peptidoglycan layer	d) Capsule	
(xiii)	Choose the abnormal urine value in 'polyuria'	Na 1105-Pasmordora - surmary	
	a) Abnormal increase in urine Volume > 2500 ml/24 hours	b) Abnormal increase in urine volume > ml/24 hours	1500
	c) Decrease in urine volume < 500 ml/24 hours	d) Abnormal increase in urine Volume < ml/24 hours	2500
(xiv)	Acid-fast staining is commonly used in the diag	nosis of which infectious disease?	
	a) Influenza	b) Tuberculosis	
	c) Staphylococcal infection	d) Streptococcal pharyngitis	
(xv)	Identify the most Immunogenic among the following		
	a) Lipids	b) Proteins	
	c) Monosaccharides	d) Polysaccharides	
		with the second of the	
	Grou		
	(Short Answer Ty	ype Questions)	3 x 5=15
2. W	rite down the mechanism of Gram Staining.		(2)
	ve example of a Viral infection of eye. Mention I	now it is developed	(3)
	scuss about Adaptive Immunity.	low it is developed.	(3)
	press the causes, and clinical manifestations of	ocular parasitic infections?	(3)
	raw a flowchart to represent different types of Ir		(3)
	OI	baldin printmaning minist	301 (5
111	ustrate Zone phenomenon with suitable diagran	n. den postere postere	(3)
	b) Starthylatorium		
	Grou	p-C satisficated as a sure recorded	
	(Long Answer Ty	pe Questions)	x 6=30
7. Write the characteristics of Bacterial cell wall. List the functions of Bacterial cell wall.			(5)
	8. Define Sterilization. Describe in details the various methods of Sterilization.		
9. What is Inflammation? What are the important features of inflammations of the eye?			(5)
 Compare and contrast between Innate and adaptive immunity with examples and cells involved 			(5)
11. With the help of suitable illustrations describe the structure of Antibodies.			(5)
12. Define antigen-antibody reaction. List various serological methods to demonstrate antigen-			- (5)
a	ntibody reaction in vitro along with examples.	gipard in assessment in	
, ,,,	OF		
	All Immunogens are Antigen but all Antigens are mmunogen and justify the phrase.	not Immunogen"- Conclude Antigen and	(5)

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