

BRAINWARE UNIVERSITY

Term End Examination 2023
Programme – B.Sc.(PA)-2020/B.Sc.(PA)-2021
Course Name – Microbiology and Pathology
Course Code - BPA202
(Semester II)

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

- 1. Choose the correct alternative from the following:
- (i) Indicate the type of cells that are the first to respond to inflammation
 - a) Mast cells

b) Neutrophils

c) Macrophages

- d) T cells
- (ii) Represent the type of inflammation that is characterized by a slow onset and long
 - a) Acute inflammation

b) Chronic inflammation

c) Subacute inflammation

- d) Systemic inflammation
- (iii) Select the correct disease under COPD
 - a) Acute brochitis

b) Chronic bronchitis

c) bronchiectasis

- d) pneumonia
- (iv) Recognize a common type of ovarian cyst:
 - a) Thyroid cyst

b) Liver cyst

c) Dermoid cyst

- d) Lung cyst
- (v) Identify the temperature and time period commonly used for the hot air oven while sterilizing glassware in the laboratory
 - a) 180 degrees Celcius for 30 mins
- b) 63 degrees Celcius for 30 mins
- c) 121 degrees Celcius for 15 mins
- d) 160 degrees Celcius for 45 mins
- (vi) Which of the following is an example of a sterilization method?
 - a) Handwashing

b) Cleaning with soap and water

c) Boiling

d) Autoclaving

(vii)	(vii) Recognize the most common drug used to treat tuberculosis?				
	a) Penicilin	b) Amphiclin			
	c) Rifampin	d) None of these			
(viii)	(viii) Select the name of the vaccine used to prevent tuberculosis?				
(ix)	a) Bacille Calmette-Gyrase (BCG) vaccine.c) Bacillus Calmette-Gyrase (BCG) vaccine.Select the type of isolation used for patients with	b) Bacille Calmette-Guérin (BCG) vaccine d) Bovine Cerum Gyrise active tuberculosis?	2.		
	a) Early detection and treatment	b) Airborne isolation			
	c) Treatment may be more difficult and require a longer duration of therapy	d) Adherence to treatment is critical to the development of drug-resistant tuberculosis and achieve a cure.	orevent		
(x)	(x) Predict which of the following is an example of a low-level disinfectant?				
	a) Glutaraldehyde	b) Phenolics			
(xi)	c) Hydrogen peroxide d) Quaternary ammonium compounds (xi) Name which of the following is a factor that affects the effectiveness of disinfection by UV radiation?				
	a) Time	b) Temperature			
(vii)	c) pH	d) all of these			
(211)	(xii) Represent the major class of immunoglobulins present in the serum				
	a) IgA c) IgG	b) IgE			
(xiii)	Identify the fate of chronic inflammation	d) IgM			
	a) Resolution	b) Clearance of injurious stimuli			
	c) Pus formation	d) Fibrosis			
(xiv)	Identify the types of exudation	.,			
	a) Serous	b) Venous			
(201)	c) Oedema	d) None of these			
(XV)	Relate the term cytokine to the immune system.				
	a) A protein that regulates immune cell function	b) An enzyme that breaks down pathoge	ens		
	c) An antibody that neutralizes toxins	d) A cell that engulfs pathogens			
	Grou l (Short Answer Ty				
	(Short Allswell Ty	pe Questions)	3 x 5=15		
2. Describe the role of the normal microbial flora in maintaining a healthy gut. (3)					
3. In	3. Indicate the factors that can disrupt the normal microhial flora of the house of the				
4. Describe now the normal micropial flora of the skin can help provent infects			(3) (3)		
5. EX	plain how the normal microbial flora of the respirate fections.	atory system can help protect against	(3)		
6. Describe the role of the normal microbial flora in the human body's digestion process. (3)					
	OR		(3)		
hı	efine the term "microbiome" and explain how it re uman body.		(3)		
	Group-C				
(Long Answer Type Questions)			5 x 6=30		
7. (8. (Compare between Innate and Adaptive immunity s Characterize the cells involved in innate immunity s	system	(5)		
9. E	explain T cell immunity	system	(5)		
	•		(5)		

10. Illustarte B cell immunity response	(5)	
11. Mention the pathogenesis of M. tuberculosis in generation of TB	(5)	
12. Explain the limitations of innate immunity system		
OR		
Expalin the functions of Antibody mediated immunity response	(5)	
