c) Simmons agar

a) Alcohol

c) Chlorine



BRAINWARE UNIVERSITY

Term End Examination 2024-2025

Programme – B.Sc.(OTT)-2022/B.Sc.(OTT)-2023/B.Sc.(OTT)-2024

Course Name – Clinical Microbiology

Course Code - BOTTC201

(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

	Choose the correct alternative from the following	
(i)	Identify the Gram-negative bacilli.	
(ii)	a) Staphylococcus aureus c) Salmonella typhi H Antigen is basically observed in	b) Streptococcus pyogens d) Mycobacterium tuberculosis
(iii)	a) Cell membranec) PiliWhich following test used to diagnose HIV?	b) Capsule d) Flagella
	a) X-Ray c) Chromatography Choose the mismatch related to normal flora of	b) ELISA d) CT scan Gastrointestinal tract.
(v)	a) E.coli c) Shigella Identify the media associated with Citrate Utilization.	b) Enterococci d) Lactobacilli ation Test.
(vi)	a) Glucose Phosphate brothc) Simmons agarIdentify the media associated with Indole Test.	b) Tryptophan broth d) Peptone broth
	a) Glucose Phosphate broth	b) Peptone broth

(vii) Identify the chemical used for purification of swimming pools.

d) Christensen agar

d) Both Alcohol and Chlorine

b) lodine

(viii)	Which of the following test is used to diagnost	se HIV?		
	a) ELISA	b) PCR		
	c) CT scan	d) None of the these		
(ix)	Identify the factors in which Spores are killed			
	a) Boiling at 100 degree C	b) Pasteurization		
	c) Autoclave	d) Filtration		
(x)	From the following which is not a chemical m	ethod for killing microbes?		
	a) UV	b) Ozone		
/vi\	c) Chlorine	d) Bromine		
(XI)	Identify the body sites which has the highest microflora.	bacterial density in the normal numan		
		L) March		
	a) Skin c) Intestines	b) Mouth d) Vagina		
(xii)	Choose the bacterial genera commonly found			
(,)	a) Lactobacillus	b) Escherichia		
	c) Pseudomonas	d) Mycobacterium		
(xiii) Select the example of a mechanical method of disinfection.				
	a) Autoclaving	b) UV radiation		
	c) Filtration	d) Hot Air Oven		
(xiv)	Identify the antibody which is found in the hi	ghest concentration in human blood.		
	a) IgA	b) IgD		
	c) IgE	d) Igg		
(xv)	Select the test which is used to diagnose COV	ID-19.		
	a) Polymerase chain reaction (PCR) test	b) Antibody test		
	c) Chest X-ray	d) All of these		
	G	roup-B		
			x 5=1	
	i vigorimenti cici e rankovivi i			
2. Define Bacteria. Outline different cellular structure of Bacteria.				
3. Briefly categorize different methods of Sterilization.			(3)	
4. Er	4. Enumerate the most common microorganisms causing Hospital acquired Infection.			
5. Prepare a list of clinical specimens associated with Microbiological lab diagnosis.			(3)	
6. Fc	or the identification of Bacteria, explain the pro		(3)	
E	xplain the steps involved in performing an antil	OR	(3)	
		and a subsection of the subsec	(0)	
	G	roup-C		
			x 6=3	
	Enumerate some etiological agents of UTI. Explain the pathophysiology of UTI.		(5)	
		ections. Mention the common pathophysiology	(5)	
	of Respiratoory tract infections.		(=)	
	Compare and contrast among different types o Classify Hepatitis . Which clinical signs and sym		(5)	
	'Illustrate different types of antibiotics. Explain		(5) (5)	
	pacterial infections."	and the state of t	(0)	

12. Analyze and plan the proper method of sterilization which would be appropriate for each of the following? A. Water B. Nutrient Agar media C. Packaged food D. Milk E. Heat stable micro tips

OR

How would you diagnose a urine specimen for detection of UTI?

(5)

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