



BRAINWARE UNIVERSITY

Term End Examination 2022

Programme - B.Sc.(BT)-Hons-2018/B.Sc.(BT)-Hons-2019/B.Sc.(BT)-Hons-2020/B.Sc. (BT)-Hons-2021

> **Course Name – General Microbiology** Course Code - BBTH010401/BBTC101 (Semester I)

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.]

	Grou	p-A	
1.	(Multiple Choice T Choose the correct alternative from the followin	· ·	1 x 15=1
		<i>.</i>	
(i)	i) Name the scientiest, who discover Spontaneous Generation theory?		
(ii)	a) Mullerc) Spallanzanimemorize the name father of Microbiology?	b) Jenner d) Redi	
(iii)	a) Edwin John Butlerc) Robert KochClassify Clostridium tetani to be a type of micro	b) Ferdinand Cohn d) Antoni van Leeuwenhoek bes	
(iv)	a) Aerobicc) FacultativeRecall the name who developed Anthrax vaccin	b) Anaerobic d) Microaerophilic e	
(v)	a) Koch c) Lister "Phagocytosis process†was described by	b) Laveran d) Pasteur :	
(vi)	a) Kochc) MetchnikoffMalaria fever anticipated with liberation of:	b) Chamberlandt d) Petri	
(vii)	a) cryptomerozotiesc) merozoitesPredicted the prevention method from	b) metacryptomerozoitesd) trophozoite	
(viii)	a) eating balanced foodc) drinking boiled waterIdentify the cluster of polar flagella	b) eating plenty of fruitsd) using mosquito nets	
(ix)	a) Lophotrichousc) MonotrichousSome hyperthermophilic organisms that grow i the two groups called	b) Amphitrichousd) Petritrichousn highly acidic (pH, 2) habitats belong to)
	a) Cyanobacteria and Diatoms	b) Liverworts and Yeasts	

(x)	c) Protists and Mosses Transduction process facilitates	d) Eubacteria and Archaea		
	Bacteria obtaining DNA from the external environment	b) Bacteria obtaining DNA from the mo	other	
(xi)	c) Transfer of genome by conjugation Fungal spores produced asexually at tops or sid	d) Transfer of genetic material through es of hyphae collectively known as	virus(Y)	
(xii)	a) Sporangiophores c) Conidia Generation time of Escherichia coli is	b) Anthospored) Meiospores		
. ,	a) 20 minutes c) 20 seconds) Virus replicates and destroyed bacteria, this pr	b) 20 hours d) 20 days ocess of replication is known as		
	a) Inhibition of bacteria c) Lysogenic Phase) Dikariyon Stage Generally shown in	b) Bacterial lysis d) Lytic phases		
(xv)	a) Asexual stage of Fungal reproductionc) Sexual stage of Fungal reproductionF-plasmid is present in	b) asexual reproduction of Bacteriad) Sexual reproduction of Bacteria		
	a) Gram +ve Bacteriac) both Gram +ve and gram -ve Bacteria	b) Gram -ve Bacteriad) None of them		
Group-B (Short Answer Type Questions)				
 5. Define acidophile, neutrophile. Explain that viruses are so different from other groups of microbe? Explain the endospore and sporulation process in bacteria? Write down the procedure for elimination of pathogens from milk by pasteurization process? Illustrate the procedure for measurement of Bacterial Growth quantitatively? OR 			(3) (3) (3) (3)	
State the Principal and Procedure of Gram Staining?				
	Gro u (Long Answer Ty	•	5 x 6=30	
	Explain mode of action Laminar Air Flow How microbial growth is measured quantitativel	y? (5)	(5) (5)	
 Explain different mode of reproduction of Bacteria. How do you classify Gram positive and Gram negative bacteria Explain mode of action of autoclave How can we classify microbes based on nutrition? (5) 				
	O I Write the different methods of sterilization highl	•	(5)	