

1	Nutrient Broth is a.....		
		a	Solidified media
		b	Liquid media
		c	Semisolid media
		d	Liquid crystalline media
2	In the Electron microscope source of electrons is from		
		a	Tungsten metal
		b	Mercury
		c	Combination of Mercury and Tungsten
		d	Lead and Mercury
3	Louis Pasteur contributed to the .....process in Science		
		a	Sterilisation
		b	Fermentation
		c	Fragmentation
		d	Distillation
4	Most often, the causative agent for the wound infection is found to be.....		
		a	Staphylococcus aureus
		b	Streptococcus pneumonia
		c	Pseudomonas aeruginosa
		d	Brucella
5	The third phase in the normal bacterial growth cycle is called as		
		a	Lag phase
		b	Exponential phase
		c	Stationary phase
		d	Decline phase
6	.....method is used for the isolation of Anaerobic bacteria		
		a	Spread plate
		b	Pour plate
		c	Streak plate
		d	Roll tube
7	Mycobacterial cell wall contains a waxy substance composed of		
		a	Picric acid

		b	Mycolic acid
		c	Myristic acid
		d	Carbonic acid
8	Liquid Parenteral preparations can be sterilized through?	a	Chemical sterilization
		b	Membrane filtration
		c	Desiccation
		d	Red heat
9	Sterilization is?	a	Process of growing microbes in laboratory
		b	Process for preparation of antibiotics
		c	Killing or removing of all the microorganisms
		d	Estimation of potency
10	_____ is used to prevent infection by killing or inhibiting pathogen growth on animal tissues.	a	sterilant
		b	disinfectant
		c	adsorbent
		d	antiseptic
11	Pasteurization is used for _____	a	Heat labile fluids
		b	Heat stable fluids
		c	Heat stable powders
		d	All powders
12	_____ is a substance that prevent growth of microorganism but does not kill the microorganism	a	Preservative
		b	Antibiotic
		c	Germicide
		d	Bactericide
13	_____ exhibit yeast-like growth at human body temperatures and mold-like growth at room temperature.	a	Dimorphic fungi
		b	Black bread molds

		c	Sac fungi
		d	Water molds
14	Viruses require _____ for growth.		
		a	bacteria
		b	plants
		c	animals
		d	living cells
15	_____ is a test for evaluation of disinfectant		
		a	Antimicrobial assay
		b	Test for sterility
		c	Phenol coefficient method
		d	IMViC
16	Chemical Indicator used in sterilisation is _____		
		a	Heat sensitive tape
		b	Spores of B subtilis
		c	Bubble point pressure test
		d	Master process record
17	The full form of HEPA filter is		
		a	High efficiency particulate air
		b	High effective particulate air
		c	High effective particles in air
		d	High efficiency of particles in air
18	Cup plate method depends on the _____ of antibiotics from a cavity through the solidified agar layer in a petri plate.		
		a	Diffusion
		b	Dissolution
		c	Dispersion
		d	Dissociation
19	Animal cell culture technology is being applied mainly in the production of		
		a	Vaccine
		b	Insulin
		c	Interferons
		d	Edible proteins
20	Assessment of microbial contamination and spoilage can be done by _____		

	a	Sterility test
	b	Preservative challenge test
	c	IMViC test
	d	Media sterilization test

Q.2	a	Explain phase contrast electron microscopy using a neat labelled diagram with its applications	4
	b	Discuss dry heat sterilization with respect to method, the mechanism of action and applications	4
	c	write a note on viable counting methods of bacteria	4
Q.3	a	Write a note on methods of cultivation of anaerobes	4
	b	Discuss identification of bacteria on the basis of morphological and colony characters	4
	c	Explain continuous cultivation of bacteria using a suitable diagram	4
Q.4	a	write a note on turbidometric bioassay	4
	b	Write in detail replication of lysogenic viruses	4
	c	Explain asexual methods of fungal reproduction	4
Q.5	a	Discuss in detail standard disinfectant evaluation test	4
	b	Discuss in detail infections caused by Chlamydia	4
	c	Explain mechanism by which oncogenic viruses can cause cancer	4
Q.6	a	write a note on principle and applications of laminar air flow unit	4
	b	write a note on bacterial capsule using a neat labelled diagram	4
	c	Explain economic importance of algae	4
Q7	a	Distinguish between gram positive and gram negative bacteria	4
	b	Describe in detail life cycle of malarial parasite	4
	c	Enlist various infections caused by clostridium spp	4