OLABISI ONABANJO UNIVERSITY, AGO-IWOYE FACULTY OF SCIENCES DEPARTMENT OF MICROBIOLOGY HARMATTAN SEMESTER 2016/2017 ACADEMIC SESSION

MCB 201: INTRODUCTORY MICROBIOLOGY (TYPE A)

MULTIPLE CHOICE QUESTIONS

A. ammonium B. nitrite C. nitrogen gas D. nitrates

A. organic substances B. oxygen C. warm temperatures D. low pressure

A. microscope B. periscope C. eyes D. telescope.

12. Microorganisms are literally microscopic organisms, which can only be seen properly with

11. In order to grow, all microorganisms require:

the aid of

TODICE QUESTIONS	IIIVIE: 1 Hour
1. Which of the following best represents the hierarchy of levels of bio A. Phylum, kingdom, class, order, genus, species, family	logical classification?
B. Kingdom, phylum, class, order, family, genus, species	
C. Kingdom, phylum, family, class, order, genus, species	
D. Class, order, kingdom, phylum, family, genus, species	
2. One of the following is a moist heat sterilization method	
A. Hot air oven B. Autoclaving C. Filteration D. Flaming	
3. Nitrosomonas and Nitrococcus convert ammonium salt to nitrites. N	
to by Nitrobacter and Nitrocystis.	infiles are further changed
A. nitrates B. nitrogen C. ammonium D. gas	
4. Plaques are:	
A. clear areas in a lawn of cultured cells caused by virus infection	
B. stained areas in a cell culture indicating cells infected by a virus.	
C. virus colonies on agar D, bacterial colonies on agar	
5. Dead and waste organic matter contains compounds which	are converted by
nitrifying bacteria into nitrates and these are assimilated by plants.	
A. ammonium B. nitrite C. nitrogen D. gas	
6. Virus reproduces in living cells by	
A. replication B. duplication C. multiplication D. all of the	
7. Specific fungicidal chemicals are effective against the few fungal mi	croorganisms that live on
skin such as and and	
A. diarrhea and ringworm - B. athlete's foot and ringworm	
C. athlete's foot and staphylococcal D. ringworm and staphylococcal	
8. Bacteria such as Streptococcus lactis convert milk sugar lactose into	that coagulates
casein in dairy Industry. A. lactic acid B. milk C. lactose D. sugar	
9. Viable plate count can be obtained using	
A. Spread plate method B. Pour plate method C. both (a) and (b)	
10. Denitrifying bacteria remove nitrates and ammonium compounds fr	om the soil by converting

13. The viral nucleocapsid is the combination of A. genome and capsid B. capsid and spikes C. envelope and capsid D. capsomere and genome. 14. One of these is not a feature of Antiseptics A. They are used externally on living tissue B. They are used on skin and mucous membrane C. They are used on inanimate objects

D. They are mild forms of disinfectants 15. The region where bacterial genome resides is termed as A. Golgi body B. Nucleus C. Ribosome 16. Example of halogens or their compounds used in the control of microorganisms is A. Sodium hypochlorite B. Tincture of Iodine C. Betadine D. All of the above 17..... contain killed or non-virulent (less pathogenic) strains of bacteria and viruses. A. antigens B. antibodies C. immunity D. Vaccines 18. Blood produces specific in response to the presence of specific foreign bodies called antigens. A. vaccines B. antigens C. antibodies D. immunity 19. Microorganisms can be grown in a sterile Petri dish on agar jelly which contains appropriate A. food B. nutrients. C. agar D. temperature 20. All algae possess A. nuclei B. chloroplasts C. Both (a) and (b) D. none of these 21. The appropriate method of sterilizing syringes and surgical instruments is A. Inspissation B. Pasteurization C. Hot and oven D. Autoclaving 22. Viruses require for growth. A. bacteria B. plants C. animals D. living cells 23. One of the following is not a low-level disinfectant A. Hydrogen Peroxide B. Alcohol C. Formaldehyde D. Detergents and Soaps 24. All the following are basic properties of cells except A. cells have nuclei and mitochondria B. cells have a genetic programme and the means to use it C. cells are capable of producing more of themselves D. cells are able to respond to stimuli 25. When comparing the types of viruses that infect bacteria, plants, and vertebrate animals, what trends appear from bacterial to vertebrate viral groups? A. more complex-type forms B. more enveloped forms C. fewer enveloped forms D. same number of DNA-containing forms 26. Animals are usually able to develop to infections by virtue of immune system. A. vaccines B. antigens C. antibodies D. immunity 27. Who identified the antimicrobial action of penicillin? A. Robert Koch B. Richard Petri C. Alexander Fleming D. Louis Pasteur 28. In the pour plate method, the mixed culture is diluted directly in tubes of A. liquid agar medium B. sterile liquid usually water C. both (a) and (b) D. none of these are weaker chemicals applied to wounds and sores to prevent micro-organisms from multiplying. A. Disinfectants B. Antibiotics C. Antiseptics D. Metabolites 30. Appropriate technique of sterilizing enzyme preparation is B. Oven method C. Membrane filtrations A. Autoclaving D. Incineration 31. In bacteria, extra chromosomal, circular double stranded, self-replicating DNA molecule is known as C. Phasmid A. Phagemid B. Plasmid D. Cosmid

32. Which groups of fungi do not generally produce sexual reproductive structures and are also
Some and the first for the fir
A. Ascomycotina B. Oomycetes C. Zygomycotina D. Deuteromycotina Mitochondria D. Oliveromycotina
A Mitochondria B Chloroplasta C Coloi de la contra del la contra de la contra del la c
A. Mitochondria B. Chloroplasts C. Golgi structure D. Mesosome 34. Bacterial chromosome is
A. Double stranded and circular B. Single stranded and circular
C. Double stranded and linear D. Single stranded and linear
35. Microorganisms are the most numerous organisms in any
A. ecosystem B. water C. air D. life
36. The first organism in most natural food chains is
A. a herbivore B. a decomposer C. photosynthetic D. carnivorous
37. The disease causing organisms are called
A. fungi B. bacteria C. pathogens D. viruses
38. What groups listed below have true cell walls?
A. algae B. mycoplasmas C. Gram-positive bacteria D. fungi
39. Membrane filtration apparatus consists of
A. Vacuum pump B. Millipore Filter C. Filterate collector D. All of the above
40. Sewage treatment employs bacteria which break down harmful substances in sewage into
ones. A. toxic B. hazardous C. less harmful D. odorous
11 Williah and is not studied in microbiology?
A. Bacteria B. Animal Structure C. Fungi D. Virus
42. Bacterial flagella is made up of
A. Microtubules B. Tubulin C. Flagellin D. Spinnin
43. Identify which statements are correct.
A All bacteria have pentidoglycan in their cell walls. B. All fungi have chitin in their cell walls.
C. All algae have cellulose in their cell walls D. All protozoans have protein in their cell walls
44. In disinfection must be killed
A. Spores B. Pathogens C. Fungi D Bacteria
45. Which of the following structures is the smallest?
A. Viriod B. Hydrogen atom C. fungi D. Chroloplast
46. Gram staining was introduced by
A. Christian Gram B. Alfred Gram C. Robert Hook D. Louis Pasteur
47. One of these statements is incorrect
A. High-level germicides are used on living tissue B. Ethylene oxide kills vegetative cells
and spores
C. Ozone can kill cells and spores on the surface of glassware and surgical implements
D. Aldehydes fix tissues by alkylation
48 technique is critical to obtaining pure culture in microbiology laboratory
A. Septic B. Aseptic C. Disinfection D. Pasteurization from one organism to another.
49. Some pathogens are carried by from one organism to another.
A. mosquitoes B. rodents C. vectors D. animals 50
50
A. anaerobic bacteria B. decomposers C. aerobic bacteria D. houseflies 51. Which of the following are not found in Cyanobacteria?
A. thylakoids B. gas vesicles C. chloroplasts D. heterocysts
A. Inylakolus B. gas vesieles C. emeropias

52. Which photosynthetic pigments are found in all prokaryotic and eukaryotic photoautotrophs? A. chlorophyll a B. carotenoids C. phycobilins D. phycocyanin 53. What is Mycology? A. Study of viruses B. Study of nucleic acid C. Study of bacteria D. Study of fungi 54. Inoculating loop is best sterilized by A. Dipping in absolute ethanol B. Flaming to red hot for 3-5 minutes C. Tyndalliization Autoclaving 55. Microorganisms are found in which of the following kingdom of five kingdom concept A. Monera B. Protista C. Fungi D. All of these 56. If the disease organism can be transmitted from one person to another it is said to be A. zoonotic B. contagious C. infectious D. homogeneous 57. Which of the following is not true of virions? A. Reproduce independently B. Contain DNA C. Contain RNA D. Are extracellular 58. Penicillin was the first antibiotic drug. It was discovered by (1881 - 1955), isolated from the Penicillium mould, and commercially produced using biotechnology. 59. The site of ATP synthesis in microorganisms includes: A. cytoplasmic membranes B. cell walls C. chloroplasts D. mitochondria 60. Microbial number on laboratory bench top is best controlled using A. Absolute ethanol B. 70% Ethanol C. Butanol D. Propanol 61. What are Blue-Green bacteria called? A. Acquaobacteria B. Cyanobacteria C. Protozoa D. None of the above 62. Which of the following is not true for eukaryotic cells? A. Nucleus is bounded by nuclear membrane B. Chromosomes contain histones C. Chloroplasts and mitochondria contains 70S ribosomes D. Gas vacuoles are present 63. Sterilization does not involve one of the followings. A. Killing of all microorganisms B. Removal of all forms of life C. The killing of many microorganisms D. Removal of both vegetative cell and spore of micro organism 64. Which group(s) of microorganisms is (are) thought to be the oldest living organisms? A. eukaryotes B. heterotrophic prokaryotes C. Archaea D. viruses 65. One of these can control microbes A. Ozonization B. Irradiation C. Methylated spirit D. All of the above 66. Microorganisms particularly, are the most widely distributed forms of life on the planet. A. bacteria B. virus C. spores D. earthworm 67. Rhizobium bacteria, living in root nodules of leguminous plant symbiotically, helps in fixing atmospheric A. gas B. carbon C. oxygen D. nitrogen 68. Chemicals used for controlling microorganisms can be A. High-level germicide B. intermediate-level disinfectant C. Low-level disinfectant D. All of the above 69. Bacteriophages have been used widely in genetic research, since they are the smallest and simplest biological entities capable of A. self-replication B. duplication C. self-duplication D. multiplication 70. Which of the following is not true for prokaryotic organism?

A. Nucleus is not bounded by nuclear membrane C. 80S ribosomes are distributed in cytoplasm the major component

B. Chromosomes does not contain histones D. Cell wall contains peptidoglycan as one of

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