

MDD-4267 Seat No._____

B. Sc. (Sem. I) Examination

November / December - 2018

Microbiology: MB - 01

(Fundamentals of Microbiology)

(Core Compulsory)

Time: 3 Hours]

[Total Marks: 70

- Choose the correct option: 1
 - (1) Organisms cannot be seen by naked eye and are of microscopic size are known as
 - (A) Microbiology
 - (B) Microorganisms
 - Zoology
 - (D) Animals
 - (2) Father of microbiology is
 - (A) Louis Pasteur
 - (B) Aristotle
 - (C) Dmitri Iwanosky
 - (D) Antony van Leeuwenhoek
 - Who is the pioneer of cultivation techniques?
 - (A) Robert Koch
 - (B) Louis Pasteur
 - (C) Antony van Leeuwenhoek

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- (D) Aristotle
- Phycology is stated as
 - (A) Study of fungi
 - (B) Study of protozoa
 - (C) Study of Virus
 - (D) Study of algae

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- Small pox vaccine was first discovered by
 - (A) Robert Koch
 - (B) Louis Pasteur
 - (C) Lister
 - (D) Edward Jenner
- (6) Infectious RNA particles without protein coat
 - (A) Viroid
 - (B) Virion
 - (C) Virusoid
 - (D) Prion
- Infrared radiation is a method of sterilization by
 - (A) Dry heat
 - (B) Moist heat
 - (C) Chemical method
 - (D) Mechanical method
- From the following which one is the sterilizing agent?
 - (A) Ethelene oxide
 - (B) Oxygen
 - (C) Nitrogen
 - (D) Carbon tetrachloride
- To kill all forms of life is known as
 - (A) Sterilization
 - (B) Incubation
 - (C) Inoculation
 - (D) Preservation
- (10) Which of the following is ionizing radiation?
 - (A) U.V. rays
 - (B) IR
 - (C) y-raya
 - (D) None of these

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(11) Which instrument	(17) Periodic transfer is technique of		
(11) Which instrument is used for	(17) Periodic transfer is technique		
sterilization?	(A) Isolation		
(A) Incubator	(B) Cultivation		
(B) Autoclave	(C) Preservation		
(C) Shaker	(D) None of above		
(D) pH meter	the following which		
(12) The condition required for autoclave	as a solidity as		
(A) 121°C temp and 15 lbs pressure	(A) Agar-agar		
for 20 min.	(B) Gelation		
(B) 120°C and 20 lbs pressure for 30 min.	(C) Silicagel		
(C) 150°C temp. for 1 hour	(D) Starch powder		
(D) 130°C temp for 2 hours.	(19) Which device is used to grow bacteria?		
(13) Oil-immersion lens was developed	(A) Incubator		
by	(B) Autoclave		
(A) Ernst Karl Abbe	(C) Fridge		
(B) Ronald Ross	(D) Micromanipulator		
(C) Charles Nicolle	(20) Lichens are the symbiotic association		
(D) Masaki Ogata	between		
(14) Bactgerial cell wall is made up of	(A) Algae and Yeast		
(A) Chitin	(B) Algae and fungi		
(B) Cellulose	(C) Fungi and fish		
(C) Dextran	(D) Fungi and root		
(D) Peptidoglycan	(21) Formalin is disinfectant.		
(15) Gram staining was developed by	(A) Solid		
(A) French Microbiologist Louis Pasteur	(B) Liquid (C) Gaseous		
(B) Dutch lens maker Leeuwenhoek	(C) Gaseous (D) Semisolid		
(C) Danish Physician Christian Gram	• • • • • • • • • • • • • • • • • • • •		
(D) Dutch Physician Christian Gram	and the state of the state.		
(16) Counter stain used in Gram staining is	(A) UV light (B) X-rays		
(A) Safranin			
(B) Crystal violet (C) Carbolfuschin			
(C) Carboliuschin (D) Acetocarmine	143		
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(23)	is known as cold sterilization.		00\ A +1	hin film of suspension or specimen
(20)	(A) Pasteurization	(4	00) ALU	the slide is called
	(B) Radiation			Smear
	(C) Filtration		(B)	
	(D) Tyndallization		(C)	Mordent
(24)	A gelatinous covering polysaccharide material surrounding to microorganism is called	1	(29) W) fixing hich of the following is not a eservation technique ?
	(A) Cell wall		(A) Lyophilzation
	(B) Capsule			Deep freezing
	(C) Spore		_	C) Liquid nitrogen
	(D) Sheath		(30)) Enrichment dye is added to media to kill gram
(25)	is used in fluorescence microscope	•	–	ositive bacteria.
	(A) Tungsten lamps		(4	A) Crystal violet
	(B) Mercury vapor lamp		0	B) Phenol red
	(C) Halogen lamp			C) Methyl red
	(D) Sodium vapor lamp			D) Safranine
(26)	Best method for getting pure culture is (A) Streak-plate		C	Which of the following toxic or inhibitory chemical is used to make the medium selective?
	(B) Agar slant		((A) Bile salts
	(C) Both (A) and (B)			(B) Antibiotics
	(D) None of these			(C) Dyes
(27)	From the following which one is the		(32) 1	(D) All of the above
	liquid medium ?		(02)	In Gram staining iodine is used as a (A) Fixative
	(A) Nutrient Agar			(B) Mordant
	(B) Nutrient Broth			(C) Solubilizer
	(C) Both (A) and (B)			(D) Stain
	(D) None of these	[Contd MDD-4267] 6		
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(33) ATCC means
(A) American Type Culture Collection
(B) American Typical Culture Collection
(C) American Type Colony Collection
(D) American Type Consortium Collection
(34) MTCC means
(A) Microbial Type Culture Collection
(B) Microbial Typical Culture Collection
(C) Microbial Type Colony Collection
(D) Microbial Type Consortium Collection
(35) An entry of unwanted microorganism in
medium is called
(A) Invasion
(B) Contamination
(C) Pollution
(D) Mixing
(a) Answer any four questions from following: 8
(1) Enlist reagents used in Gram staining.
(2) Define Stain and sterilization
(3) Enlist scientist involved in Abiogenesis
(4) Write any one application of the Laminar Air Flow and Incubator
(5) Define preservation and enlist methods used for preservation.
(6) Write importance of Agricultural microbiology.

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And the Party of t Answer any three questions from following Contribution of scientist : Edward Jenner 3 Robert Kotch, Paul Ehrlich Give the mode of action: Alcohol, Gamma ray, TEM (3) Lyophilization (4) Hot air oven (5) Write a detailed note on the following: (any three) Golden era of microbiology. (1) Autoclave Compound Microscope

(4) Enlist methods for pure culture techniques 1 and explain any one of them

(5) Enlist staining techniques and explain any one of them.

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