November / December - 2017

MB - 01: Microbiology

(Fundamentals of Microbiology)

Time: 3 Hours]

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[Total Marks: 70

## SECTION - I

Answer the following M.C.Qs:

35

- (1) Which of the following is basic dye?
  - (A) Crystal Violet
  - (B) Malachite green
  - Methylene blue
  - all
- (2) Who was first to observed microbes?
  - (A) Antony van Leeuwenhoek
  - (B) Loius Pastuer
  - Theodor Schulza
  - (D) T.Van Dusch
- The proper order from shortest to longest wavelength is:
  - (A) Visible, infrared, ultraviolet
  - (B) Infrared, visible, ultraviolet
  - (C) Ultraviolet, visible, infrared
  - (D) Visible, ultraviolet, infrared

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		-	_			
(4)	Who	disprove	the theory	y of	abiogenesis ?	
	(A)	Van Helr	nont			
	(B)	Louis Jol	olot			
	(C)	Louis Pa	steur			
	(D)	(B) and	(C) both			
(5)	Ehrl	ich disco	vered		_ as the first	
	mag	ic bullet	for trea	tmen	t of infectious	
	disea	ise.				
	(A)	Trypan	•	(B)	Propanol	
	(C)	Butanol		(D)	Mercury	
(6)		in	strument is	s used	l for sterilization	
	(A)	Incubato	r			
	(B)	Orbital	Shaker			
	(C)	Hot air	Oven			
			hotometer			
(7)				ised :	for isolation of	
		Aerobic				
			ic bacteria	l		
		Both	•			
(0)			the above			
(8)		Ca	in increase	the a	affinity of stains	
			structures.			
		Fixative		(B)	Mordant	
(0)		Stain		(D)	Intensifier	
(9)	Whi	ch two d	yes make	Gien	nsa's Stain?	
	(A)	Methyle	ne blue +	eosir	1	
	(B)	Crystal	violet + M	[etac]	hite green	
	(C)	Congo r	ed + Metl	vlene	e hluo	
TC 10 :=	(D)	Safranir	ne + crysta	ıl vio	let	
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(10)	Wha	t does a phycologi	st stı	ıdy?
	(A)	Protozoa	(B)	Fungi
	(C)	Algae	(D)	Parasites
(11)	Enri	chment culture teac	hniqu	e was developed
	by _			
•	(A)	Winograskly	(B)	Beijerinck
	(C)	Pasteur	(D)	Loeffer
(12)	Iodo	phors is mixture o	f	
	(A)	Iodine + polyenolp	yrrol	idone
	(B)	Iodine tincture		
	(C)	Iodine + polyvinyl	lpyrro	lidone
	(D)	all		
(13)		event that trigger		
		establishment of mi	crobic	ology as a science
	is			
		Development of M		<del>-</del>
		Germ theroy of d		
		Spontaneous gene	ration	1
		All		
(14)	) Wh	ich is the part of	mic	roscope used to
	spe	trol amount of ligh cimen?	t tha	t reaches to the
	(A)	Cultivation	(B)	Inoculation
		Isolation		Sterilization
(15	) The	e method is used to	grov	v microorganism
,		the culture medium	ı is c	alled
		Cultivation	(B)	Inoculation
		Isolation	(D)	Sterilization
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Grai	m's staining is staining
	nique
(A)	Special (B) Positive
(C)	Differental (D) Supravital
	is referred as biological indicator
of a	utoclave.
·(A)	Bacillus stearothermophilus
(B)	Bacillus subtilis
(C)	Bacillus megatoriun .
	Bacillus cereus
Cult	ture prepared from a single colony is
	ned as
(A)	Pure culture (B) Mixed culture
(C)	Axenic culture (D) Isolated culture
Who	o discovered 1st Antibiotic and got noble
priz	e in 1945 ?
(A)	Sir Alexander fleming
(B)	Fleming, Chain and Florey
(C)	Chain and Florey
(D)	Chain and A.fleming
Che	motherapeutic agents must
()	Trevenduestrov the activity of
(1)	Leave unaltered the host's natural defense mechanisms
(C)	Be able to come in contact with the
	parasite by penetrating the cells.
(D)	All above
J	4
	tech (A) (C) of a (A) (B) (C) (D) Cult term (A) (C) Who priz (A) (B) (C) (D) Che (A) (B) (C) (D) (Che (A) (C) (D)

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(01)	Cald	atorilization is
(21)		sterilization is  Patientian (R) Pasteurization
		Radiation (B) Pasteurization Desication (D) Filteration
	(C)	Bockean
(22)		ch of the following is best method for
		tion?
	-	Sector method
		four flame method
		Spread plate technique
		Pour plate technique
(23)		is a unique device for isolation of
	bact	eria and fungi.
	(A)	Micromanipulator
	(B)	LAF
	(C)	Autoclave
	` '	colony counter
(24)	Spor	re forming bacteria, are more resistant to
		·
	(A)	Heat (B) cold
	(C)	Water (D) all of the above
(25)	The	absorption of UV light is leads with
		·
	(A)	Formation of T-T dimer
	(B)	Formation of purine dimer
	(C)	Breakdown of DNA strand
	(D)	All of the above
(26)	) Phe	nol coefficient is used to
	(A)	Determine Chernical structure of
		disinfectant
	(B)	Check the toxicity
	(C)	Determine the antimicrobioal activity of
		disinfectant

(D) All above

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## (27) For culture preservation In liquid nitrogen at which, temperature ampoules, are stored? (B) -78 °C (A) -196 °C (D) -80 °C (C) -150 °C (28) Electrons of Scanning, Electron Microscope are reflected through (A) Glass funnel (B) Specimen (C) Metal-coated surfaces (D) Vacuum chamber (29) The study of Bacteria is called \_\_\_\_ (A) Bacteriology (B) Parasitology (C) Virology (D) Phycology (30) 20% Copper sulfate solution is used in (A) Capsule staining (B) Flagella staining (C) Spore. staining (D) Metachromatic staining (31) Magnification of light microscope is (A) 1000X(B) 2000X (C) 1500X (D) 2500X (32) \_\_\_\_\_ is termed use for the absence, of all kind of microbes. including spores. (A) Sterility (B) Decontamination (C) Sanitization (D) Disinfection (33) 1 meter is equal to (A) 10<sup>9</sup> (B) 10<sup>-9</sup> (C) 10<sup>6</sup> (D) 10-6 KQ-1347 ]

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- Describe the discovery of viruses
- Distinguish between TEM and SEM
- Enlist methods of isolation of bacteria and explain one in details
- Write note on different types of staining
- Explain effect of radiation on microbes

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