PSC Microbiologist - Pharmaceutical Corporation - Im - Kerala Ltd Examination Previous Year Question Paper

Exam Name: Microbiologist - Pharmaceutical Corporation - Im - Kerala Ltd

Date of Test: 11.12.2015

Question Paper Code: 228/2015

Medium of Questions: English



228/2015

Maximum: 100 marks

Time: 1 hour and 15 minutes

A				
	(C)	E.coli	(D)	Mycobacterium
	(A)	Saccharomyces cerevisiae	(B)	Haemophilus influenza
8.	Which mi	croorganism's genome was first se	quenced?	
	(6)	Taper genua miger	(10)	2
	(A)	Aspergillus niger	(D)	Thiobacillus ferrooxidans
W.		Desulfovibrio desulfuricans		Pseudomonas aeruginosa
7.	A major o	rganism used in commercial biolea	ching for	copper recovery is:
	(C)	Frits Zernike	(D)	Lippershey
	(A)	Hans Janssen	(B)	Zacharias
6.	The first	phase contrast microscope was dev	eloped by	
	(C)	Sibling	(D)	None of the above
	(A)	Allopatric	(B)	Sympatric
5.	Species th	nat occur in different geographical	regions se	
	(C)	Amperometric	(D)	Thermometric
	(A)	Conductmetric	(B)	Potetiometric
4.		sensor is based on the movement of		
	(C)	Ecology of community	(D)	None of the above
	(A)	Ecology of many species	(B)	Ecology of many populations
3.	Synecolog	y deals with :		
	(C)	Secondary	(D)	Tertiary
	(A)	Primary	(B)	Preliminary
2.	Ozonation	of water is an example of ———		type of effluent treatment.
	(0)	2070	(12)	
	(A) (C)	13% 26%	(D)	74%
	/A)	100/	(B)	37%

A

9.	Which of the following best describes biodegradation?						
	(A)	(A) A minor change in an organic molecule					
	(B)	Fragmentation of a complex of	organic molecu	ule			
	(C)	Complete transformation of t	he organic mo	lecule to mineral forms			
	(D)	All of the above					
10.	Who disco	vered the bacteria that cause o	cholera?				
	(A)	Filippo Pacini	(B)	Robert Koch			
	(C)	Louis Pasteur	(D)	Rudolf Virchow			
11.	Which of t	the following devices is suitable	e for the remo	val of gaseous pollutants?			
	(A)	Cyclone separator	(B)	Electrostatic precipitator			
	(C)	Wet scrubber	(D)	Fabric filter			
12.	"Superbug	" was a name coined for organ	isms engineer	red for:			
	(A)	Antibiotic production	(B)	Probiotic production			
	(C)	Hydrocarbon degradation	(D)	Enzyme production			
13.	All the foll	lowing are immunogenic EXCE	OPT:				
	(A)	Bacterial flagella	(B)	Haptens			
	(C)	Bacterialpili	(D)	Viral spikes			
14.	The most i	important organism to be elimi	inated from th	ne canned food :			
	(A)	Pseudomonas	(B)	Clostridium			
	(C)	Salmonella	(D)	Shigella			
15.	Which of t	he following is used in the prod	duction of 'cry	'proteins?			
	(A)	Bacillus thuringiensis	(B)	Streptococcus mutans			
	(C)	Streptomyces griseus	(D)	Penicillium chrysogenum			
16.	Earthworn	n used in vermicomposting:					
	(A)	Lumbricus rubellus	(B)	Eisenia foetida			
	(C)	E. buchholzi	(D)	All of the above			
17.	The resolu	tion obtainable with electron n	nicroscopo is i	n the range of			
	(A)	0.03 µm	(B)	0.003 μm			
	(C)	0.0003 μm	(B)	0.3 μm			
	2015						

18.		the following abbreviations relations in food?	fers to a	cultural technique for determining
	(A)	FDA	(B)	SPC
	(C)	FAO	(D)	IMC
19.	Antibody	diversity results from :		
	(A)	Apoptosis	(B)	Antigenic shift
	(C)	Somatic recombination	(D)	Complement binding
20.	SDS-PAG	E is used in one of the following im	munologic	cal technique :
	(A)	Immunodiffusion	(B)	Immunoprecipitation
	(C)	Immunoelecrophoresis	(D)	Western blotting
21.	The Cory	nebacteria inhabit the surface of eye		
	(A)	Commensalism	(B)	Parasitism
	(C)	Symbiosis	(D)	Predation
22.	Which am	ong the following is a virus predon	inantly in	fect insects?
	(A)	Baculovirus	(B)	Adenovirus
	(C)	Parvovirus	(D)	Retro virus
23.	Enzyme w	videly used in ice cream industry:		
	(A)	Amylase	(B)	Protease
	(C)	Invertase	(D)	Phosphatase
24.	Size exclu	sion is related to which form of chr	omatograj	phy:
		Gel filtration		Affinity
	(C)	Ion exchange	(D)	Hydrophobic interaction
25.	Which of	the following vaccine are products of	of genetic e	engineering?
	(A)	Diphtheria vaccine	(B)	Hepatitis B vaccine
	(C)	Influenza vaccine	(D)	Tetanus vaccine
26.	Which of	the following is not a method of im	nobilizatio	on?
1	(A)	Adsorption	(B)	Covalent binding
	(C)	Hydrogen bonding	(D)	Entrapment

following	Cryptococcus neoformans Malassezia furfur	(B) (D)	Aspergillus fumigates Mucor species
following	Cryptococcus neoformans	(B)	Aspergillus fumigates
	is the least frequently associated?		
Immunoco		from se	veral fungal diseases. Which of the
	absorption of light by aigai cell wi	AII.	
(D)	of algae		
(C)		n water f	acilitated by physiological degradation
		er due to :	
Algal bloo	ma impart a distinct colour to water	u due te c	
(C)	Nitrobacter	(D)	Anabaena
(A)	Clostridium	(B)	Frankia
Which of	the following genera do not contain	species tl	hat fix nitrogen symbiotically?
(C)	anosteric regulation	(D)	suicide inhibition
			non competitive inhibition
(C)	Both (A) and (B)	(D)	None of these
(A)	Klebsiella pneumonia	(B)	Streptococcus pneumonia
Quellung	reaction is used for typing of:		
(C)	NK cells	(0)	All the above
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. (C)	Phenyl alanine	(D)	Tryptophan
(A)	Glutamic acid	(B)	Lysine
The most	frequently used amino acid in food	industry	:
(0)	Willate reductase	(D)	None of the above
			Nitrite reductase None of the above
	(A) (C) The most (A) (C) The first (A) (C) Quellung (A) (C) Mechanis (A) (C) Which of (A) (C) Algal bloo (A) (B) (C) (D)	(A) Hydrogenase (C) Nitrate reductase The most frequently used amino acid in food (A) Glutamic acid (C) Phenyl alanine The first cell to recognize that a graft is fore: (A) B cell (C) NK cells Quellung reaction is used for typing of: (A) Klebsiella pneumonia (C) Both (A) and (B) Mechanism based enzyme inactivation is als (A) competitive inhibition (C) allosteric regulation Which of the following genera do not contain (A) Clostridium (C) Nitrobacter Algal blooms impart a distinct colour to wate (A) their pigments (B) excretion of coloured substances (C) formation of coloured chemicals it of algae (D) absorption of light by algal cell water	(C) Nitrate reductase (D) The most frequently used amino acid in food industry (A) Glutamic acid (B) (C) Phenyl alanine (D) The first cell to recognize that a graft is foreign are th (A) B cell (B) (C) NK cells (D) Quellung reaction is used for typing of: (A) Klebsiella pneumonia (B) (C) Both (A) and (B) (D) Mechanism based enzyme inactivation is also known at (A) competitive inhibition (B) (C) allosteric regulation (D) Which of the following genera do not contain species the (A) Clostridium (B) (C) Nitrobacter (D) Algal blooms impart a distinct colour to water due to: (A) their pigments (B) excretion of coloured substances (C) formation of coloured chemicals in water for falgae (D) absorption of light by algal cell wall

35.	Aspergillo	sis is recognized in tissue by the pres	sence of	
	(A)	Coenocytic hyphae	(B)	Pseudo hyphae
	(C)	Septate hyphae	(D)	Budding cells
36.	progresses	pricked her finger while pruning s to an ulcer. Several nodules then do y agent is:	ome ros evelop a	e bushes develops a local pustule that long the local lymphatic drainage. The
	(A)	Aspergillus fumigates	(B)	Sporothrix schenckii
	(C)	Cryptococcus neoformans	(D)	Candida albicans
37.	All of the EXCEPT		r their c	ontribution in the field of Microbiology
	(A)	Louis Pasteur	(B)	Elie Metchnikoff
	(C)	Paul Ehrlich	(D)	Robert Koch
38.	The organ	nism whose natural habitat is terre ea water yet able to tolerate varying	estrial a degrees	and which are able to grow in media of salinity are known as:
	(A)	Indigenous organism	(B)	Transient organism
	(C)	Halotolerant organism	(D)	None
39.	Spinae ar	e tubular surface appendages in :		
	(A)	Gram positive	(B)	Gram negative
	(C)	Actinomycetes	(D)	Archaea bacteria
40.	Griseofuly	vin is a antibiotic.		
	(A)	Antibacterial	(B)	Antifungal
	(C)	Antitumor	(D)	Antiprotozoan
41.		s one of the most commonly used di tive for this purpose?	sinfecta	nts. Which concentration of ethanol is
	(A)	100%	(B)	70%
	(C)	50%	(D)	95%
42.	The prote	ins produced in plants in the event of	f a path	ogen attack :
		AR	(B)	SAR
	(C)	PB	(D)	PR

43.	Cold aggl	utinin test is useful for the diag	nosis of:	
	(A)	Mycoplasma pneumonia	(B)	H. influenza
	(C)	N. Menigitidis	(D)	Cryptococcus neoformans
44.	Carl Woe	se proposed the concept of the de	omain based	on differences in which of the following
	(A)	rRNA	(B)	tRNA
	(C)	mRNA	(D)	DNA
45.	Which of	the following can be the final ele	ctron recept	or in anaerobic respiration in bacteria?
	(A)	Oxygen	(B)	Pyruvate
	(C)	Nitrate	(D)	Carbon dioxide
46.	Mitochone	dria are missing in :		
	(A)	Yeast	(B)	Cyanobacteria
	(C)	Aspergillus	(D)	Paramecium
47.	Any proce	ss that destroys the non-spore-fe	orming conta	aminants on inanimate objects is:
	(A)	Antisepsis	(B)	Sterilization
	(C)	Disinfection	(D)	Degermation
48.	Fildes tech	nnique is used for the culture of		
	(A)	Clostridium perfringens	(B)	Clostridium tetani
	(C)	Clostridium botulinum	(D)	Clostridium difficile
49.	A woman Twin. Wha	with infertility receives an ova	ry transpla	nt from her sister who is an identical
	(A)	Xenograft	(B)	Autograft
	(C)	Allograft	(D)	Isograft
50.	Type 1 hyp	persensitivity is mediated by wh	ich of the fol	lowing immunoglobulins?
	(A)	IgA	(B)	IgG
	(C)	IgM	(D)	IgE
51.	The most c	ommon pathogens responsible for	or nosocomia	al pneumonias in the ICU are :
	(A)	Gram positive organisms	(B)	Gram negative organisms
	(C)	Mycoplasma	(D)	Virus infections
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52.	Which dy	e is most suitable for fun	gal demonstration i	in biopsy?	
	(A)	Alizarin red	(B)	Veirhoffdye	
	(C)	Masson's trichrome	(D)	P.A.S.	
53.	Which or molecular	ne of the following organ	nisms was not a n	nodel organism related to the birth	0
	(A)	Streptococcus	(B)	Penicillium	
	(C)	Escherichia	(D)	Neurospora	
54.	The first	aminoacid synthesized du	uring protein synthe	esis:	
	(A)	Tyrosine	(B)	Proline	
	(C)	Methionine	- (D)	Tryptophan	
55.	The inser	t capacity of plasmid vect	ors:		
	(A)	1 – 15kb	(B)	15 - 25kb	
	(C)	35 – 45kb	(D)	80 – 100kb	
56.	The blotti	ng technique used to dete	et RNA :		
	(A)	Western Blot	(B)	Southern Blot	
	(C)	Northern Blot	(D)	Eastern Blot	
57.	The regula	ation of gene expression i	n response to fluctu	ations in cell-population density :	
	(A)	Microbial intelligence	(B)	Biofilm	
	(C)	Quorum sensing	(D)	Translational regulation	
58.	Which one	e is not a DNA staining re	agent aiding DNA	visualization?	
	(A)	Ethidium bromide	(B)	Sybr Green	
	(C)	Hoechst stain	(D)	Methyl red	
59.	The theory	y behind si-RNA therapy			
	(A)	Correction of gene muta	tion with an oligonu	ıcleotide	
	(B)	Blocking translation of r	RNA from a mutar	nt gene with an oligonucleotide	
	(C)	Providing needed protein			
	(D)	Removal of toxic molecul			
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60	The enzy	me that degrades double stranded	DNA ·	
00.	(A)	DNase I	(B)	Mung Bean nuclease
	(C)	S1 nuclease	(D)	RNase H
61.	Hops are	used in the preparation of:		
	(A)	Wine	(B)	Ethanol
	(C)	Citric acid	(D)	Beer
62.	An organ likely a:	nism that has super oxide dism	utase and	peroxidase but lack catalase is most
	(A)	Aerotolerant aerobe	(B)	Facultative anaerobe
	(C)	Obligate anaerobe	(D)	Aerotolerant anaerobe
63.	Industria	l alcohol will be produced by using	g starter cu	lture:
	(A)	Top yeast	(B)	Middle yeast
	(C)	Bottom yeast	(D)	Feeder yeast
64.	2-aminop	urine induces mutation by :		
	(A)	Base pair change	(B)	Frame shift
	(C)	Duplication	(D)	Insertion
65.	The group	which is no longer considered un	der fungi is	s:
	(A)	Ascomycetes	(B)	Basidiomycetes
	(C)	Chytridiomycetes	(D)	Oomycetes
66.	Name the	bacteria known as natural genet	ic engineer	of plants:
	(A)	Agrobacterium tumefaciens	(B)	E. coli
	(C)	Saccharomyces	(D)	Pseudomonas
67.		ent. This cell was marked with		be continuously monitored during gene. To visualize this movement one
	(A)	Phase contrast microscope	(B)	Bright field microscope
	(C)	Fluorescence Microscope	(D)	Atomic force microscope
68.	Major stir	mulus for spore formation in bacte	eria is :	
	(A)	Nutrition limitation	(B)	Heat stress
	(C)	Cold stress	(D)	pH stress
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69.	Mycobact	erium tuberculosis is an intra	cellular bacter	ium. It prefers to infect :	
	(A)	Macrophages	(B)	B-cells	
	(C)	T-cells	(D)	Neutrophil	
70.	Which of	the following organism is wid	ely used as bioc	ontrol agent in organic far	ning?
	(A)	Rhizobium tropicii	(B)	Trichoderma viride	
	(C)	Fusarium oxysporum	(D)	Nostoc muscosum	
71.	Which of	the following acid will have h	igher bacteriost	atic effect at a given pH?	
	(A)	Maleic acid	(B)	Tartaric acid	
	(C)	Citric acid	(D)	Acetic acid	
72.	bacterial	left open lactose is fermente activity which increases the This is example of:	AND RESIDENCE OF THE PARTY OF T		NAME OF TAXABLE PARTY.
	(A)	Ecological succession	(B)	Microbial antagonism	
	(C)	Interference competition	(D)	Microevolution	
73.	Which is	the best method for checking	Mycoplasma con	ntamination in mammalian	cell line?
	(A)	Western hybridization	(B)	ELISA	
	(C)	PCR	(D)	Southern hybridization	
74.	Plate cou	nt of bacteria in foods general	ly use the platin	ng medium consisting of:	
	(A)	peptone, yeast extract, gluco	ose, sodium chlo	ride and distilled water	
	(B)	yeast extract, glucose, sodiu	m chloride, aga	r and distilled water	
	(C)	peptone, glucose, sodium ch	loride, agar and	distilled water	
	(D)	peptone, yeast extract, gluco	ose, agar and di	stilled water	
75.	Which of	the following is not true for th	ne thermal resis	tance of the bacterial cells?	
	(A)	Cocci are usually more resis	tant than rods		
	(B)	Higher the optimal and may	cimal temperatu	ires for growth, higher the	resistance
	(C)	Bacteria that clump conside	rably or form ca	apsules are difficult to kill	
	(D)	Cells low in lipid content are	e harder to kill	than other cells	
76.	The time the basis	temperature combination for of:	HTST pasteuriz	eation of 71.1°C for 15 sec is	selected on
	(A)	Coxiella Burnettii	(B)	E. Coli	
	(C)	B. Subtilis	(D)	Clostridium Botulinum	
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77.	Suspected show:	d colonies of Staphylococcus aurei	us when	grown on Baird-Parker medium sha
	(A)	coagulase activity	(B)	protease activity
	(C)	catalase activity	(D)	none of these
78.	Which of	the following characteristic differen	itiates Eu	abacteria from Archaebacteria?
	(A)	Circular nature of chromosome	(B)	Absence of nuclear membrane
	(C)	Presence of 70S ribosomes	(D)	Presence of murein in cellwall
79.		ed DNA amplification is an essentia e markers?	l feature	of which of the following combination of
	(A)	RFLP, AFLP and SSR	(B)	AFLP, SSR and RAPD
	(C)	RFLP, RAPD and SSR	(D)	RAPD, RFLP and SSR
80.	Which of	the following processes does not tak	te place in	in the $5' \rightarrow 3'$ direction?
	(A)	DNA replication	(B)	Transcription
	(C)	Nick translation	(D)	RNA editing
81.		is the founder of Kerala Ka	umudi.	
	(A)	Sree Narayana Guru	(B)	C.V. Kunjuraman
	(C)	K. Sukumaran	(D)	M. S. Sreenivasan
82.	Who is th	e author of the novel Patitapankaja	m?	
	(A)	Thakazhi Sivasankara Pillai		
	(B)	Kodungallur Kunjikkuttan Thami	ouran	
	(C)	G. Sankarakurupu		
	(D)	O. Chandu Menon		
83.	Martyrdo	m of Anastasia is a short epic poem	written b	by:
	(A)	Kumaranasan	(B)	K.P. Vellon
	(C)	M.C. Joseph	(D)	Blessed Elias Kuriakose Chavra
84.	Mrs. Dutt	y is the initiater of	– industr	у.
	(A)	Lace	(B)	Coir
	(C)	Pepper	(D)	Medicine
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85.	Ananda (Guru Geeta is written by :		
	(A)	Swami Ananda Teerthan	(B)	Thycaud Ayya Vaikundar
	(C)	P.K. Chattan Master	(D)	Brahmananda Siva Yogi
86.	Meena K	umari Report is related to:		
	(A)	Fishermen	(B)	Farmers
	(C)	Traders	(D)	Environment
87.	Represent	tative Indians is written by :		
	(A)	Barrister G.P. Pillai	(B)	C. Kesavan
	(C)	A.K. Gopalan	(D)	M.R.B.
88.	What is t	he real name of Daya Bhai?		
	(A)	Mercy Mathew	(B)	Medha Patkar
	(C)	Vandhana Siva	(D)	Rukmini Rao
89.	Who in th	e author of The Red Sari?		
03.	(A)	Javier Moro	(P)	Sonia Gandhi
	(C)	Maneka Gandhi	(B) (D)	Rukmini Rao
	(0)	Maneka Gandin	(1)	Rukillii Rao
90.		e literary Figure that used an and Desabhimani:	the pen na	mes like, Gaja Kesari, Vajrasoochi,
	(A)	Makthi Thangal	(B)	Kumara Guru
	(C)	Ramakrishna Pilla	(D)	Moorkoth Kumaran
91.	Ente Jeev	itha Katha is the Autobiography	of:	
	(A)	A.K. Gopalan		
	(B)	Kesava Dev		
	(C)	Lalitambika Antarjanam		
	(D)	Kuroor Neelakandan Nambood	dirippad	
92.	Velattu L	akshmi kkutty, K.K. Kuramba a	and K.C. Kali	kutty are the leaders of :
	(A)	Uppercloth revolts	(B)	Kuttamkulam Satyagraha
	(C)	Channar Agitation	(D)	Ezhava Memorial
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				[P.T.O.]

93.	Which of	the following is the Drama v	written by Kodun	gallur Kunjikkuttan Thampuran?
	(A)	Chandrika	(B)	Sarasanadakam
	(C)	Hemanthakata	(D)	Raghava Madhavam
94.	Which is	regarded as the Internation	al Soil Year?	
	(A)	2014	(B)	2000
	(C)	2015	(D)	1991
95.	Supreme in 2014?	Court of which country allow	wed Transgender	people to identify as the Third Gender
	(A)	India	(B)	Pakistan
	(C)	Bangladesh	(D)	Germany
96.	In which	year the Government of Ind	ia had launched '	The National Rural Health Mission?
	(A)	2005	(B)	2014
	(C)	2000	(D)	2008
97.	The scher		ment of India in	2014 for uplift of urban rural poor is
	(A)	DAY	(B)	ASHA
	(C)	NSSO	(D)	Nirbhaya
98.	CLPRA 2	012 is related to:		
	(A)	Women	(B)	Caste
	(C)	Children	(D)	Marriage
99.	Tozhilken	drattilekku is a Famous :		
	(A)	Novel	(B)	Drama
	(C)	Poem	(D)	Short Story
100.	2009 was	the Birth Centenary of Who		
	(A)	Saraswathy Amma	(B)	Rajalakshmi
	(C)	Lalitambika Antarjanam	(D)	Parvathy Nenminimangalam

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