te & Time: 28-Dec-2018 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

BPharm Semester III - End Semester Examination, December 2018 Course Code:PBT-BP303T Course Title: Pharmaceutical Microbiology Date:28-12-2018

1/		Date:2	8-12-2018	a microbiology		
/	Pł	narmaceutical Micro	obiology [PBT-BP 303	TI		
Marks: 7	rks: 75 I Multiple Choice Questions (MCQs)			Duration: 180 mins.		
Answer al	ll the questions.		e Questions (MCQs)	Q		
1)	Bacterial cell wall	is made up of		Section Duration	on: 30 mins	
9	1) Chitin 2)	f the above				
	Correct option is	: 2			(1)	
2)	Bacterial chromose	ome is				
	Single 1) stranded circular	Double 2) stranded circular	Single 3) stranded linear	Double 4) stranded linear	(1)	
	Correct option is:	2				
3)	Surface appendages	s of bacteria meant	for cell to cell attachm	ent during conjugati	on	
•	1) Pili 2) Fla	gella 3) Spin	ae 4) Cilia		(1)	
	Correct option is:	1	4			
4)	Decolouriser in acid	I fast staining is				
	5% H2SO4 1) in 95% Methanol	3% HCl in 2) 95% Ethanol	3% H2SO4 3) in 95% Ethanol	5% HCl in 4) 95% Ethanol	(1)	
	Correct option is: 2	l.				
5)	Which of the following methods of sterilization is included under dry heat sterilization?					
	1) Gamma	2) U.V.	3) IR	4) X-Rays	(1)	

	Radiation	Radiation	Radiation	1			
	Correct option is:	3					
6)	Which of the following components of a large sterilizer does not allow the passage of pure steam in the discharge channel?						
	1) Reducing valve	2) Check Valve	31 Bypass 41	Balanced Thermostatic trap	(1)		
	Correct option is:	·					
7)	Which of the following methods of evaluation of disinfectants does assess the bactericidal activity of disinfectants?						
	Serial dilution in fluid media	Gradient 2) plate technique	Rideal - 3) Walker Coefficient	4) Ditch plate technique	(1)		
	Correct option is: 3	y					
8)	Given below are the	fungal sexual spor	es, except				
	1) Sporangiospores	2) Ascospore	s 3) Basidiospore	es 4) Oospores	(1)		
	Correct option is: 1						
9)	In sterility testing, the antimicrobial activity of sulphonamides, is neutralised by addingto the culture media						
	1) Penicillinase	2) PABA 3) Acid 4) Alkali		(1)		
	Correct option is: 2						
10)	A particle, which is a known as	A particle, which is associated with one or more culturable microorganisms, is known as					
	1) Non-viable particle	2) Coarse Particle	3) Viable Particle	4) Fine Particle	(1)		
	Correct option is: 3						
11)	Walls, Floors and Ceiling in the clean rooms should						
	have smooth, seamless materials	be coated with durable, 2) chemical resistant	have HEPA filters to provide filtered air	All of 4) the above	(1)		

materials

Correct option is: 4

The number of dead skin cells released per day from human body is

- 1) $2x10^6$
- $2) 2x10^7$
- $3) 2x10^5$
- 4) $2x10^4$

(1)

Correct option is: 2

The flow rate of filtered air in a Laminar Air Flow Cabinet is 13)

- 1) 0.45 m/s
- 2) 4.5 m/s
- 3) 45 m/s
- 4) 0.045m/s

(1)

Correct option is: 1

14) CLSI stands for

- Classic Laboratory Standard Institute
- Clinical Limits and Standards Institute
- Clinical and Laboratory Standards Institute
- Clinical Licencing Standards Institute

(1)

Correct option is: 3

In two level factorial assay of antibiotics, the ratio between two standard dilutions of 15) antibiotics, as per IP, is

- 1) 4:5
- 2) 3:4
- 3) 4:3
- 4) 5:4

(1)

Correct option is: 1

The overall rate of spoilage and deterioration of a chemical will depend upon 16)

- Its 1) molecular
- The physicochemical 2) properties of a
- The type and
- All of

- structure
- particular environment
- 3) quantity of microbes present
- 4) the above

(1)

Correct option is: 4

The incubation conditions for evaluation of preservatives are 17)

- Incubation of 1) containers
- Incubation of
- Incubation of 3) containers
- Incubation of 4) containers
- (1)

- 2) containers or tubes at 20 to 25°C
- or tubes at 35 to 37°C
- or tubes at 20 to 25°C

	bacteria.	all for all anisms. organisms.	for Candida albicans and 35 to 37°C for remaining organisms.
	Correct option is: 2		
18)	is an enzyme used in the	e tissue disaggregation	
	1) Pepsin 2) Collagena		4) Chitinase
	Correct option is: 2		(1)
19)	In hybridoma technology, plasma cells.	is used for fusing mouse r	nyeloma cells with
	1) PEG 2) PVA 3)		
	Correct option is: 4		(1)
20)	1) -196°C 2) 150°C	id phase of nitrogen in a nitr	0.00
	1) -196°C 2) -156°C	3) -187°C 4) -176°C	ogen refrigerator
	Correct option is: 1		(1)
Angree	П	Long Answers	
1)	an the questions.		
1)	Enlist and classify the methods of determination of viable count in countries.	f enumeration of bacteria and letail.	d explain the method of
2)	Explain the influence of time of course of disinfection process. Ad'n'.		(10)
Answer al	I the questions.	nort Answers	
1)	the questions.		
-)	With the help of a neat labelled dia bacterial growth curve.	gram, outline the different p	
2)	Outline the principle involved in in	dole production test and citra	(5)
3)	What is meant by saturated steam? I efficient sterilising agent?	Explain, why saturated stean	is considered as an
4)	Explain the effect of concentration	0 1	
	presence of moisture on the sterilisat	tion by ethylene oxide.	(5)

Define virus. Enlist the methods of cultivation of viruses and explain any one	
method.	(5)

- Briefly outline the procedure and calculation of two level factorial assay. (5)
- Write a short note on laboratory requirements for in-vitro cultivation of animal cells. (5)

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