Seat No:	Enrollment No:

PARUL UNIVERSITY **FACULTY OF PHARMACY**

B. Pharm. Summer 2018 - 19 Examination

Semester: 03 Date: 24/04/2019

Subject Code: BP303T Time: 10:00am To 01:00pm

Su

lns	tr	uc	tic	ns:

- 1.
- 2.

	ct Name: Pharmaceutical Microbiology-Theory	Total Marks: 75
Fig	actions: ures to the right indicate maximum marks. ke suitable assumptions wherever necessary.	
Q.1	Multiple Choice Questions (MCQs) (1 Mark Each)	(20)
1.	Which method is used for sterilization of fixed oil?	
	a) Filtration	b) Moist Heat Sterilization
	c) Dry Heat Sterilization	d) Chemical Sterilization
2.	is biological indicator for Moist Heat	Sterilization.
	a) Bacillus subtilis	b) Staphylococcus aureus
	c) Bacillus stereothermophyllus	d)Candida albicans
3.	What is organ of adhesion in bacteria?	
	a) pili	b) flagella
	c) spore	d) ribosome
4.	have properties of both virus and bac	eteria.
	a) Actinomycetes	b) Rickettsiae
	c) Spirochetes	d) All of them
5.	gives three dimensional view of an o	bject.
	a) Scanning Electron Microscope	b) Transmission Electron Microscope
	c) Phase Contrast Microscope	d) Dark Field Microscope
6.	Which of the following is not used for preservation	n of biomolecules?
	a) Lyophillization	b) Cryopreservation
	c) Vacuum foam drying	d) Autoclaving
7 is known as Cold Sterilization.		
	a) filtration	b) Moist Heat Sterilization
	c) Dry Heat Sterilization	d) Gamma Radiation
8.	Time in minutes at any defined temperature to des	stroy 90% viable microorganism is called
	a) D value	b) F value
	c) Z value	d) Q ₁₀ value

9.	Mycology is study of				
	a) Virus	b) Fungi			
	c) Bacteria	d) Microorganisms.			
10.	In Riedel Walker test is used.				
	a) Escherichia coli	b) Salmonella typhi			
	c) Clostridium tetani	d) Streptococcus pyrogens			
11.	Out of following which is not the constituent of Nutrient Agar media:				
	a) Thioglycolic acid	b) agar			
	c) Peptone	d) Sodium Chloride			
12.	DOP Test is carried out for				
	a) Disinfectant Activity Test	b) Microbiological Assay			
	c) Particle count test	d) LAF Efficiency Test			
13. Cresol with Soap solution B.P. is also known as:					
	a) Lysol	b) Dettol			
	c) Phenyl	d) None of above			
14.	ive?				
	a) Methyl Paraben	b) Microcrystalline Cellulose			
	c) Magnesium Carbonate	d) BHT			
15.	Which of the following is used as culture media to	o carry out sterility testing?			
	a) Nutient agar media	b) Nutient broth			
	c) both of them	d) None of them			
16. Which of the following is used for locomotion in bacteria?		bacteria?			
	a) fimbrie	b) flagella			
	c) cell wall	d) nucleus			
17. Gram negative bacteria are commonly classified by		oy			
	a) Urease test	b) Catalase test			
	c) Oxidase test	d) IMViC test			
18.	Test organism for Streptomycin is				
	a) Bacillus subtilis	b) Bacillus pumilus			
	c) Staphylococcus epidermis	d) None of above			
19.	Viable count means				
	a) Number of dead cells present in the sample.	b) Number of live cells present in the sample.			
	c) Number of dead and live cells present in the sample.	d) All of above.			

- 20. Class 100 clean room means ______.
 - a) less than 100 particles larger than 0.5 microns per cubic foot of air space
 - c) more than 100 particles larger than 0.5 microns per cubic foot of air space
- b) less than 100 particles larger than 1 micron per cubic foot of air space
- d) more than 100 particles larger than 1 micron microns per cubic foot of air space

Q.2 Long Answers (any 2 out of 3) (10 Marks Each)

(20)

- 1. Discuss normal growth curve of bacteria and describe types of bacteria based on their oxygen, temperature and nutritional requirements.
- 2. Define sterilization and write a detailed note on Autoclave.
- 3. Discuss factors affecting action of disinfectant in detail.

Q.3 Short Answers (any 7 out of 9) (5 Marks Each)

(35)

- 1. Write a note on reproduction of bacteriophage.
- 2. What is microbial assay? Describe its advantages over chemical assay.
- 3. Discuss designing of aseptic area and describe equipments for laminar air flow.
- 4. Explain applications of cell culture in pharmaceutical industry and research.
- 5. Discuss factors affecting microbial spoilage of pharmaceuticals.
- 6. Mention scope and importance of Microbiology.
- 7. Explain principle of gram staining and negative staining in detail.
- 8. Discuss tests for media used for sterility testing.
- 9. Write a note on cultivation of anaerobes.