

II B. Pharmacy I Semester Regular/Supplementary Examinations, February/March- 2022 PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours Max. Marks: 75							
		 Note: 1. Question Paper consists of three parts (Part-I, Part-II & Part-III) 2. Answer ALL (Multiple Choice) Questions from Part-I 3. Answer any TWO Questions from Part-III 4. Answer any SEVEN Questions from Part-III 					
		PART –I					
1.	i)	All of the following are common bacteriological stains, Except: a) Bismarck brown b) Methylene blue c) Eosin d) Crystal violet	(1 M)				
	ii)	Which of the given bacteria has flagella and shows positive motility test?(1)a) Staphylococcus aureusb) Yersinia pestisc) Klebsiellapneumoniaed) Proteus vulgaris					
	iii)	MacConkey's agar consists of, which inhibits the growth of gram-positive (1) bacteria. a) Blood b) Peptone c) Bile salts d) Tryptophan					
	iv)	Gram positive microorganisms have a) violet color b) pink-red color c) green color d) black color					
	v)	Nutrient agar is prepared by addition of a) 0% agar in nutrient broth c) 5% agar in nutrient broth()b) 3% agar in nutrient broth d) 10% agar in nutrient broth()					
	vi)	Transcription of bacterial DNA is mediated by a) DNA polymerase b) RNA polymerase c) DNA ligase d) RNA ligase					
	vii)	Which of the following is the relationship between optical density and cell mass?a) exponentially proportionalb) linearly proportionalc) inversely proportionald) not related	(1M)				
	viii)	In Laminar air flow type of filter is located. a)membrane filter b) Seitz Filter c)HEPA d)all of the above					
	ix)	 Which of the following method is used for a viable count of a culture? a) Direct microscopic count (b) Plate-count method c) Membrane-filter count (d) Plate-count method and membrane-filter count 					
	x)	Nichrome loop wire is used in which of the following techniques? (a) Pour-plate b) Streak-plate c) Spread-plate d) Roll-tube technique					
	xi)	Which device is used to pick a single bacterial cell from a mixed culture? a) microscope b) micropipette c) microprobe d) micromanipulator					
	xii)	Cell counting can be carried out by (1 a) direct microscopic count using petroffhansser counting chamber b) plate counting c) membrane filter count d)all of the above					
	xiii)	 A virus is made up of a) Protein coat and nucleic acid b) Protein coat and mitochondria c) Nucleic acid and cell membrane d) Nucleic acid, cell wall and cell membrane 	(1M)				
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	xiv	xiv) Viruses that attack bacteria are called a) Virophage b) Lysophage c) Bacterio		riophage d) Nor	ne of the above	(1M)				
	xv)		ammonia	vth of fungi is con b) maltose and p d) peptone	•		(1M)			
	xvi									
	xvi	i) Which of the f agents?					(1M)			
	xvi	a) Virusesii) Which of the fa) cell wall sync) protein synt	thesis b)	es c) Bacter ns are not affected nucleic acid synth capsule formation	by antimicrobial lesis	d) E.coli agents?	(1M)			
	xix	· • •		c) 88.19%	d) 99.97%		(1 M)			
	xx)	Class 100 stan	ds for	,	,		(1 M)			
		· ·		niconductor indust proelectronic indust	•					
		c) Clean room	n is used in ster	ile manufacturing	unit					
		d) Clean room	n is used for hy	draulic equipment						
PART -II										
2.	a)	Write a note on n	utritional requin	rements of bacteri	a.		(5M)			
	b)	Describe abut dar	k field microsc	copy and electron i	microscopy.		(5M)			
3.	a)	What are disinfect evaluation of disi	•	them with examp	les. Discuss the m	ethods used for	(5M)			
	b)		itline the viral replication cycle.							
4.	a)	What is microbia	l spoilage?				(5M)			
	b)	What are the App	lications of cel	l cultures in Pharm	naceutical Industr	y?	(5M)			
				PART -III						
5		Discuss the scope	e and significan	ce of pharmaceuti	cal microbiology.		(5M)			
6		ľ	e	s used for identifie	01		(5M)			
7				gy, merits and den			(5M)			
8				of sterile powders		stermzation.	(5M)			
9			• •	g MIC of bacteric			(5M)			
10		Explain the micro		•	idal diugs.		(5M)			
11		•	•		sentic area		(5M)			
12		With a neat block diagram explain the design of aseptic area. Outline the general procedure used for animal cell culture.								
13		_	-			uete	(5M) (5M)			
		write iii ofiel on	study of informed	oial stability of ph	armaceutical proc	ucis.	()			
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