Seat Number



## BP 303-T Pharmaceutical Microbiology (723303)

Source (9)

P. Pages: 3

Time: Three Hours

Max. Marks: 75

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no	tructions	to	Candidate	20 '
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1. Do not write anything on question paper except Seat No.

- Graph or diagram should be drawn with the black ink pen being used for writing paper or black HB pencil.
- 3. Students should note, no supplement will be provided.
- 4. Diagram should be drawn whenever necessary.
- 5. All questions are compulsory.
- 6. Figure to the right indicate full marks.

4	Chanca th	o propor	altornativo	of	the	following
1.	Choose th	ie proper	alternative	OI	me	IOHOWING

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- 1) Bacterial flagella is made up from ----
  - a) Pilin

b) Flagellin

c) Lichenin

- d) Lipids
- 2) Sterility testing media is
  - a) MacConkey's media
- b) Blood Agar
- c) Fluid Thioglycolate media d)
- **Nutrient Agar**
- 3) Lamibar Air flow supply sterile air with the help of
  - a) HEPA filter
- b) Membrane filter

c) Seitz filter

- d) Asbestos filter
- 4) Acid fast bacteria is ----
  - a) Staphylococcus aureus
- b) Salmonella typhi

c) E. Coli

- d) Mycobacterium tuberculosis.
- 5) In Gram's staining ----- is used as decolourizer.
  - a) Crystal violet
- b) Methylene blue

c) Saffranine

- d) Alcohol
- 6) Which process remove all forms of life?
  - a) Sterilization
- b) Disinfection

c) Filtration

- d) Radiation
- The best bacterial culture preservation method which preserve culture upto twenty years.
  - a) Soil method
- b) Lyophilization
- c) Oil-overlay method
- d) Periodic transfer method

8)	The	best Isotonic agent which a	are us	ed for preparation of bacterial susp	ension			
,		Normal saline (NaCl)	b)	Distilled-water				
	60.00		d)	Alcohol				
	c)	Tap-water	u)	Alcohol				
9)	The	resolving power of light mid	crosco	ppe is				
	a)	0.2μm	b)	0.2A'				
	c)	0.2nm	d)	0.2mm				
	C)	0.21111	u)	O.ZIIIII				
10)	Mag	gnesium ribonucleate is pres	sent ir	), STATE				
	a)	Gram positive bacteria	b)	Gram negative bacteria				
	c)	Acid-fast bacteria	d)	Non-acid fast bacteria				
11)	Roc	d shape bacteria is called						
	a)	Cocci	b)	Bacilli				
	c)	Spirillum	d)	Positive bacteria				
	-,		n de					
12)	Wh	ich organism strictly require	d host	1?				
	a)	Bacteria	b)	Virus				
	c)	Fungi	d)	Algae				
	,	3	,					
13)		is differential staining.						
,		Simple staining	b)	Negative staining				
	c)	Gram's staining	d)	Spore staining				
1	-/							
14)	Which part of bacterial cell protect the cell from desication condition?							
	a)	Cell-wall	b)	Cell-membrane				
	c)	Flagella	d)	Capsule				
	0)	riagena	۵,	To proper gradual Vision				
15)	Wh	ich organism lock metabolic	: mach	ninery?				
10)	a)	Bacteria	b)	Virus				
		Fungi	d)	Algae				
	c)	rungi	u)	Algae				
16)		is act as good decolou	rizer i	n Gram's staining				
10)	2)	Crystal violet	h)	Saffranine				
		Alcohol	d)	Dettol				
	c)	Alconor	u)	Detto				
17)	\/\h	ich concentration of Ethano	l is eff	fective on object?				
11)	a)	100%	b)	70%				
		50%	d)	30%				
	c)	30%	u)	30 %				
18)	Fin	d the correct solidifying age	nt rea	uired for bacterial culture media.				
10)		Saffron	b)	Agar-Agar				
	a)			Beef-extract				
	c)	Peptone	d)	Deer-extract				
10)	Da	oth phase of hasteria repres	ont	nhase				
19)		ath phase of bacteria repres						
		Lag phase	b)	Log phase				
	c)	Decline phase	d)	Stationary phase				
00)	г.	id magain madal samasast	• +h= -	tructure of bacterial	- Ad			
20)				tructure of bacterial				
	a)	Cell-wall	b)	Capsule				

2.	Attempt	any	two	from	the	following	
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- 1) Explain requirements of & designing of Aseptic area.
- Describe Reproduction of viruses by diagrammatic representation.
- 3) Explain various methods of measurement of bacterial growth.
- Attempt any seven of the following.

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- Explain cultivation of viruses by chick-Embryo technique.
- 2) Describe sterility testing with suitable method.
- 3) Explain bacterial growth curve with applications.
- 4) Explain various steps involved in animal-cell culture.
- 5) Write down the mode of action of Ethyl Alcohol & Halogen & explain it.
- 6) Write a short note on Radiation Sterilization.
- 7) Describe the ultrastructure of flagella with suitable diagram.
- 8) Explain working & construction of Electron microscope with suitable ray diagram.
- 9) Describe principle & method of Gram's staining.

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