Pharmaceutical Microbiology

1.	Retroviruses have unique enzyme which is a] DNA-dependent-RNA-polymerase b]RNA-dependent-DNA-polymerase c] DNA polymerase d] RNA polymerase
2.	Infectious RNA particles without protein are a] Viroid b] Virion c] Virusoid d] Prion
3.	Spike projections on the outer surface of virus is a] Capsomeres b] Peplomeres c] Proteomeres d] Viroid
4.	In Virion structure, regulatory protein is present which is known as a] Cell membrane b] Tegument c] Antigen d] Coat
5.	Which of the following enzyme is present on the surface of the influenza virus? a] Transcriptase b] Neutraminidase c] Neuraminidase d]Galactosidase
6.	The demonstration that viruses could be crystallized like chemicals was given by
7.	The extraction of 'infectious nuclic acid' from a virus was first proposed by a) Stanley

	b)	Schramm
		Geirer
		Both b & c
Q	e)	high kind of example we is an equatored in the consider
0.		hich kind of symmetry is encountered in the capsid? Cubical
		Hexagonal
		Helical
		Both a & c
9.		e capsid is composed of large number of which forms its morphological unit.
		Polypeptide
		Capsomers Nucleocapsid
		Peplomers
10.		e isosahedral capsid consists of vertices.
	a)	4
		12
	c)	
11		16was first discovered in 1909 by haward Ricketts.
11.	1	was first discovered in 1909 by flaward Nicketts.
		a)ricketsiae
		b)fungi
		c)algae
		d)bacteria
12.	Ch	loroplast are mainly present in
		a)animal cell
		b)plant cell
		c)bacterial cell
		d)fungal cell
13.	Sill	kworm disease discoverd by
		a)Paul Enrich
		b)Lister
		c)Pasteur

	d)Hata
14.	The credit for providing foundation to bacteriology as a science goes to
	a)louis Pasteur
	b)anthrax
	c)koach
	d)hooke
15.	What do the term dimorphic mean
	a)bisexuai
	b)unisexual
	c)exist in two form
	d)exist in single form
16.	Primary characteristics of viruses include all, except a] Chemical Nature of nucleic acids b] Structure of Virion c] Site of replication d] Host range
17.	Complex symmetrical virus is a] Adeno b] Papova c] Pox d] Parvo
18.	Select the correct sequence for the following taxonomic group – Order – Family – Subfamily – Genus a] Virinae – Viridae – Virus – Virales b] Viridae – Virales – Virinae – Virus c] Virus – Virales – Virinae – Virus d] Virales – Viridae – Virinae – Viridae
19.	RNA virus with positive sense nucleic acid are all except a] Toga b] Retro c] Corona

d] Picorna	
20. Earlier viruses has been all Organs they infect blue Host range classified Mode of transmission dlasses Specific surface transmission dlasses surface transmission de la Specific surface de la Specific su	on
21. Classification of viruses h	as been based upon properties.
a. chemical	b. physical
c. physicochemical	d. all the above
22. Site of replication in virus	es at
a. nucleus	b. cytoplasm
c. both a and b	d. mesosome
23. Which of the following is	the secondary characteristics of viruses ?
a. Specific suface structures	b. Site of replication
c. Structure of virion	d.Chemical nature of nucleic acid
24. In viruses, within the gener	a the number of species may vary from
a. one to more than 100	b. one to less than 100
c. one to 100	d. one to 10
25. A nucleic acid that encode	s information for making proteins needed by viruses is called as
a. sense nucleic acid	b. negative nucleic acid
c. positive sense nucleic acid	d. positive nucleic acid
26. The acidic pH of traditional	al Sabouraud agar is
A) 5.9 B) 5.6	
C) 6.2 D) 6.8	
27. Sabouraud agar is a type o	f agar growth medium containing
A) Peptides	B) HCl

C) Peptones	D) Glucose
28. The standard temperature	re for incubation of fungi is
A) 40^{0} C	B) 50^{0} C
<u>C)</u> 30 ⁰ C	D) 20^{0} C
29 is used fo	r the subculture of Aspergillus species.
A) Mycobiotic agar	B) Potato dextrose agar
C) Inhibitory mold a	agar <u>D) Czaper agar</u>
30. Potato Dextrose-yeast e	xtract agar (PDYA) media is good for growing cultures derived fron
·	
A) Mushroom	
C) Fungi D) B	asidomycetes
31. Viral DNA replicates in	.
a) Cytoplasm	b) vacuole
c) Nucleus	d) Mitochondria
32. Which of the following	stage does not involve in replication of viruses?
a) Adsorption b)	Uncoating
c) Entry d)	protein Binding
33. Viruses can multiply in_	·
a) Living cell. b) I	Non living cell
c) Plant cell. d) l	Both (a) and (b).
34. Fusion of nuclei in fung	i is
a) Karyogamy b) F	Progamy

c) Microgamy.	d) Pregamy
35. A fully assemble	d infectious virus is called as
a) Micron	b) virion
c) Prion	d) None of these.
36. AIDS (acquire in	nmino deficiency syndrome) Day is
a) may1	
b)December 1	
c)December 20	
d)June 1	
37. AIDS was first re	ported in
a)Russia	
b)France	
c)Germany	
d)U.S.A	
38. All of the followi	ng except one are CD4+ Cell
a)monocyte	
b) T helper cell	
c)t cytotoxic cell	
d) mycrophages	
39. Which immune n	narker is present during the window period of HIV infection
a) P24 antigen	
b) Antibodies to GP	120
c) Antibodies to GP4	1
d) P 17 Antigen	

40. Choose the odd man out
a) Gag
b) Tat
c)Nif
d) Rev
41.Which of the following virus is now believed to be leading cause for cervical cancer in women? a] HIV virus b] Human Papilloma virus c] Herpes virus d] Pox virus 42. Which of the following virus that causes inflammation in brain was studied by postdoctoral researcher and author James White? a] West Nile virus b] Mosquito-borne virus c] Both of these d] None 43. Genetically Modified (GM) mosquitoes maintain their resistance to malarial parasite for a] 3-4 years b] 8-9 years c] 2-5 years d] 6-7 years 44. Nipah Virus is the member of a] Paraviridae b] Myxoviridae c] Paramyxoviridae d] None 45. Rotavirus is also known as a] Stomach Flu b] Hepatitis virus c] Coronavirus d] None
46. White nose syndrome is caused by which fungus? a)Burkholderia b)Saccharomyces cerevisiae c)Pseudogymnoscus destrectans
d)Rhizopus Microsporus

47. CBM18 is key event of which pathogenecity?
a)Batrachochytrium Dendrobatidis
b)Perigord black truffles
c)Both a and b
d)None of the above
48. Fecal Microbiota transplantation (FMT) is effective in?
a)Mucuromycosis
b)Clostridium Difficilie infection(CDI)
c)Piriformospora indica
d) None of the above
49. Which Bacteria can reduce virulence of a plant pathogen?
a)Wheat Microbiome bacteria
b)Exophiala Dermetitidis
c)Aspergillus Fumigatus
d)Beauveria bassiana
50. The study report on mitrogen activated protein invented by?
a)Alexander Idnurm
b)Magnaporthe Oryzae
c)Allain Jacquier
d)None of the above
51. Fungi are defined as or present as
(a) Non- Motile eukaryotic organism.
(b) Motile prokaryotic organism.
(c) Non- motile prokaryotic organism.
(d) Autotrophs.
52. Fungi morphologically are
(a) Simple oval cells.
(b) Long tubular cells.
(c) Both (a) and (b).
(d) None of these.
53. Fungi are

(a)	Autotrophs.
(b)	Chemoautotrophs.
(c)	Organic Compounds for Energy and carbon.
(d)	Both (b) and (c)
54.	Majority of Fungi are present in
(a)	Soil.
(b)	Water.
(c)	Both (a) and (b)
(d)	None of these.
55.	Fungi consists of concentration of sugar in laboratory media are
(a)	1 to 2%
(b)	2 to 3%
(c)	4 to 5%
(d)	6 to 7%
56.	Scientific classification of fungi includes? a) Opisthokonta b) Holomycota c) Both a and b d) None of the above
57.	The diameter of fungi is? a) 2-10 micrometer b) 3-8 micrometer c) Both a and b d) None of the above
58.	Subkingdom of fungi? a) Mucuromycosis

b) Blastocladiomycota

c) Microsporidiad) None of the above	
 59. Bacidomycota and subkingdom dikarya together called as a) Sac Fungii Or Ascomycetes b) Exophiala Dermetitidis c) Aspergillus Niger d) None of the above 	?
60. Study of historical and sociological impact of fungi is known a) Oncology b) Ethnomycology c) Antibiotic d) None of the above	as?
61. study of viruses is know as: a) Mycologyb) parasitology	c) virology d) bacteriology
62. the process of sterilization is used in diary industry is : a) paste tyndallization c) fermentation d) segregation	eurization b)
63. Microorganisms which grow in presence of oxygen are called: Microscopic c) Anaerobic d) none of the above	a) Areobic b)
64. which is the following smallest bacterium? a) N. gonorrhea Mycoplasma d) vibrio chlolerae	b) M.Tuberculosis c)
65. Backbone of cell wall in prokaryotes is: a) lipopolysaccharide Murein d) protein	b) polypeptide c)
66. the purpose of the staining is to demonstrate: a) cell size arrangement of bacterial cells d) all the above	b) cell shape c)
67. acid-fast staining is also know as: a) negative staining b) AFI Neelsen staing d) Both b&c	3 staining c) Ziel-
68. The process of killing viable spore of microorgnisum are: b) sanitization c) sterilization d) filtration	a) Disinfection
69. Paraffin oil can be sterilized by: a) hot air sterilization c)filtration d) disinfection	b)Moist heat sterilization
70. Best autoclaving is achieved at: a) 121°C for 15minutes 110°C for 2hours d) 110°C for 3hours.	b) 120 ⁰ C for 1hour c)
71. Fungi are defined as or present as(a) Non- Motile eukaryotic or prokaryotic organism (c) Non- motile prokaryotic organi	- · ·

72. Fungi consists of concentration of sugar in laboratory media are 3% (c) 4 to 5% (d) 6 to 7%	(a) 1 to 2%	(b) 2 to
73. Reserve food material of fungi is ? A) Starch B) Prote Glycogen	ein C) Glucose	D)
74. Which chemical is widely used for disinfection of dairy equipment B] Ca(ocl2) and Naocl C] Naoh and Febr D] all of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for disinfection of dairy equipment of the chemical is widely used for the chemic	•	3po2
75. The presence of which acid in bacterial spore make it more resistant nucleic acid B] pitoic acid C] dipicolnic acid D] none of these	nt to disinfection?	A]
76. Which ion destroys the amino acid bond in nucleic acid and precip B] co3 C] no2 D] H	vitate proteins?	A] oh
77. Why strong acid and alkalies are not useful? a. Corrosive b. Metal d. Non-metal	Non-corrosive	c.
78. process of killing microorganisms including spore is: a) Disinfection sterilization d) filtration	on b) sanitization	n c)
79is a good disinfectant in aqueous or alcoholic solution Halogens c) Iodine d) Dyes	n a)Alcohol	b)
80. Alcohol concentration aboveare effective against viruses c)60% d)70%	s. a)90%	b)80%
 81. The micro-organism used for microbiological assay of thiamine 1. Bacillus Pumilus 2. Lactobacillus Casei 3. Staphylococcus epidermidis 4. Ochpomonas danica 		
 82. Test micro-organism used for microbiological assay of tetracycline 1. Staphylococcus epidermidis 2. Staphylococcus aureus 3. Bacillus pumilus 4. Bacillus subtilis 83. Diffusion of antibiotic takes place in		
2. Cylinder plate 3. Both 4. None of these		

84. In assay of vit. B ₁₂ indicator is used as
2. Bromocresol blue
3. Bromophenol blue
4. Bromothymol blue
85. Organism used for streptomycin assay is
1. Bacillus Cereus ATCC 11778
2. Bacillus Subtilis ATCC 6633
3. Bacillus Subtilis ATCC 3366
4. Bacillus Cereus ATCC 6633
86. The method of microbiological assay are
a) Cup-Plate or Cylinder-Plate method
b) Turbidimetric or Tube assay method c) Dropler Method
d) both a & b
87. Test micro-organism used for microbiological assay of Neomycin is
1. Bacillus Pumilus
2. Staphylococcus aureus
3. Staphylococcus epidermidis
4. Bacillus Subtilis
88. The micro-organism used of microbiological assay of vitamin B ₁₂ is
2. Poteriochromonas Stipitata
3. Lactobacillus Virdescens
4. Lactobacillus Plantarum
89. In broth dilution test, the final inoculum used for determination of minimum inhibitory concentration (MIC) of antimicrobial compound is
90. The methods of microbiological assay of cynocobalamine (B ₁₂) are
3. Bothe of the above
4. None of this

91.The micro-organisms used	d for micro-biological assay of Gentamicin is
	A. Staphylococcus aureus
	B. Bacillus subtilis
	C. Staphylococcus epidermidis
	D. Bacillus pumilus
92. Which solvent used for	or standard solution or erythromycin is
	a. Methanol
	b. Water
	c. Buffer solution
	d. Ethanol
93. Test micro-organisms	s used for microbiological assay of Thiamine is
	a. Lactobacillus uiridescens
	b. Lactobacillus plantarum
	c. Lactobacillus leichamnniii
	d. Lactobacillus cusei
94. Maintain a culture on	slants of the medium under the incubation condition of Rifampicin
is	
	a. 36-37.5 °C
	b. 32-35 °C
	c. 29-31 ⁰ C
	d. $31-34$ 0 C
95. Which method used f	for microbiological assay of anti-biotics is
	a. Method A
	b. Method B
	c. Both A and B
	d. None of the above
96. It is necessary to assa	y antimicrobial agents for determination of
1.	Valency
2.	Potency
	Length
4.	Breadth
=	nt growth factors needed for growth and multiplication of
	Virus
	E.coli
3.	Bacteria
4.	Micro-organism
	tion and the test antibiotic solution are added in sterile cavities or
cylinder prepared in a	
	Liquid medium
2.	Solid medium

- 3. Semisolid medium 4. All of these 99. Test micro-organism used for microbiological assay of amphotericin B 1. Saccharomyces Cerevisiae 2. Bacillus Pumilus 3. Staphylococcus aureus 4. Lactobacillus casei 100. Test micro-organism used for micro-biological assay of Biotin (Vit. H) 1. Lactobacillus casei 2. Lactobacillus leichamannii 3. Lactobacillus Plantarum 4. Lactobacillus Veridescens 101. For the sterility testing of ophthalmic product quantity to be used for each culture medium should be a. 5-10 ml b. 2-5 ml c. 5-6 ml d. 7-12 ml 102. For testing of liquid immiscible with aq. Vehicles and suspension. Sterile enzyme preparations like penicillinase and cellulose is incorporated to help in a. To accomplish fast and rapid rate of filtration b. To help in dissolution of insoluble substance c. To avoid microbial growth 103. Glucose in thioglycollate medium used for sterility testing invariable serves as a. An inactivator of mercury compounds b. To augment and promote reducing parameters c. An-oxidation reduction indicator d. All of above 104. For oils and oily solutions, recommended culture media have incorporated by a. Polysorbate 80 b. Polysorbate 20
 - c. Isopropyl myristate
- 105. Oxidation reduction potential (En) value of medium should be to enable the growth of anaerobes specifically
 - a. Low
 - b. Constant
 - c. Quiet high
 - d. Very high
- 106. Which chemical is used for the sterility testing which shows antagongist activity

	a.Sod	a.Sodium thiosulphate					
b.p-hydroxy benzoate ester							
	c.Lyb	orol					
	d.Nor	ne of the above					
	107.	2.What is the pH for the growth of the bacteria					
	a.6-7						
	b.6-9						
	c.6-8						
	d.6-1	0					
	108.	3. The presence oh oil n fats reduces the disinfecting ability of					
	a.Alc	oholics					
	b.Phe	enolic					
	c.Ald	ehyde					
	d.Ket	one					
	109.	4. Which is not true factor affecting the disinfectant					
	a.Ten	nprature					
	b.Sur	face tension					
	c.Con	acentration of disinfectant					
	d.Tox	xicity of agents					
	110.	andantimicrobial agents usually have greatest activity in acidic tion.					
	a.Phe	enolic and acidic					
	b.Aci	dic and ketone					
	c.Ket	c.Ketone and aldehyde					
	d.Ald	ehyde and phenol					

of the following ways-A] Exponentially B] Linearly C] No relation C] none of the above 112. The presence of oils and fats markedly does what to the disinfectant ability of the phenolics? A] Increases B] Decreases C] Some time increase some time decrease D] Does not affect 113. Spores are A] More resistant than vegetative cells B] Less resistant than vegetative cells C] Both are equally resistant C] None of the above 114. Generally, antibacterial activity and systematic toxicity both are increased by A] Halogenation B] Sulphonation **C]** Nitration D] Both A and C 115. Up to what length of carbon chain the disinfectant activity is increased? A] 5 Carbons B] 4 Carbons C] 7 Carbons C] 6 Carbons 116. The critical evolution of the disinfectants may be carried out byalUse of dilution test b]Filter paper method c]Both (a) and (b) d]None of these 117. For AOAC dilution method which strain of micro-organisms are usually employed? a]Salmonella choleraesuis b]Staphylococcus aureus

111. The effectiveness of disinfectant is generally related to the concentration by which

c]Pseudomonas aeruginosa					
d]All of above					
118. Which alcohol are most frequently used for disinfection?					
a]Butyl alcohol (40%)					
b]Ethyl alcohol (70%)					
c]Ethyl alcohol (90%)					
d]None of these					
119. Formalin which is used as a disinfectant contains the aqueous solution of formaldehyde gas.					
a]40%					
b]45%					
c]37%					
d]20%					
120. A bactericidal antibiotic has the following characteristics-					
a]Pronounced postantisiotic effect					
b] MBC and MIC values					
c] Efficacy in absence of host defence					
d] All of above					
121.Strong acids and alkalies are not specially useful because they are					
a.Corrosive					
b.Weak acid					
c.Mineral acid					
d.All of the above					
122is a good disinfectant in aqueous or alcoholic solution.					
a.Alcohol					

b.Halogens
c.Iodine
d.Dyes
123.Alcohol concentration aboveare effective against viruses.
a.90%
b.80%
c.60%
d.70%
124are widely used for control of micro-organisms on floor wall, nourishing home.
a.Aldehyde
b.Quaternary compound
c.Alcohol
d.Detergency n soaps
125.Formaldehyde is the main aldehyde used for
a.Sterilization
b.Disinfectant
c.Detergency
d.Antiseptics
126. For the development of antiseptics surgery who used the phenol or carboxylic acid
a. Lister
b. Lewis pastuer
c. Bergey's mannual
d. None of the above
127. Why strong acid and alkalies are not useful?
a. Corrosive

b. Non-corrosive					
c. Metal					
d. Non-metal					
128. Which acids are weakly ionised?					
a. Benzoic acid					
b. HCL					
c. Oxalic acid					
d. Acetic acid					
129. Which aldehyde is mainly used for the disinfectant?					
a. Acetaldehyde					
b. Formaldehyde					
c. Glutaldehyde					
d. Dialdehyde					
130. Which compound have the detergent proportion of ionic surfectant combinned with container surfactant.					
a.N on ionic detergent					
b.Ionic compound					
c.Amphotoric					
d.All of the above					
131. Which chemical is widely used for disinfection of dairy equipments?					
A] Agen and H3po2 B] Ca(ocl2) and Naocl C] Naoh and Febr D] all of the above.					
132. What is the percentage concentration of CH2O in aqueous solution of aldehyde? A] 68% B] 50- 80% C] 34- 380%					

D	20-	29.	5	%

- 133. The presence of which acid in bacterial spore make it more resistant to disinfection?
- A] nucleic acid
- B] pitoic acid
- C] dipicolnic acid
- D] none of these
- Which ion destroys the amino acid bond in nucleic acid and precipitate proteins?
 - A] oh
 - B] co3
 - C] no2
 - D] H
 - 135. when cresol are emulsified in liquid soaps and alkalis?
 - A] cresol becomes neutral
 - B] germicidal property is lost
 - C] cresol become more germicidal than phenol
 - D] no effect on cresol