# Registration No. <u>H31</u>|37730/2016

· araillosis
1. Antimicrobial agent which is least likely to be effective in treatment of systemic aspergillosis
which is least likely to be effective in
1. Antimicrobial agent which B
a) Amphotericin B Caspofungin
(c) Clotrimazole
Voriconazole *
e) Itraconazole
a cultural species?
2. Which of the following is NOT significant in pathogenicity of Clostridium species?
2. Which of the following is it of significant
( VIII   ICIDITATE T
b) Spores c) Viability and multiplication in tissues without blood flow
Endotoxin
e) Enterotoxin
3. False positive results are less likely to occur in
a) Rapid reagin test b) Treponema Pallidum Haemagglutination Assay
Venereal disease Research laboratory test
d) Kahn test
e) Wasserman's test
4. Microscopic structure associated with Paracoccidioides brasiliensis is
4. Microscopic structure associated with a disconnection
a) Sporangia b) Tuberculate macroconidia
a) Arthrospores
Yeast cell with multiple buds
e) Spherule
cı —— lentospirosis is
5. Significant feature of human leptospirosis is  a) Generalized lymph node enlargement
b) Extensive scars from superficial lesions
c) Febrile and afebrile periods
d) Gummatous lesions on the skin
(e) Septicaemia
6. Enzyme which is detectable in strict anaerobes
a) Catalase >
b) Superoxide dismutase c) Coagulase
d) Phospholipase
e) Urease

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7.		a) Effects of cyclic AMP b) Lack of inhibitory mediator c) Consumption of food contain enterotoxin in the intestine d) Effects of haemolysin produ e) Consumption of food contain	in neurotransmission ning <i>Clostridium bott</i>	nism	trains whic	h release
8.	Normal	flora spirochaetes may be detected  a) Skin  b) Intestinal tract c) Blood	d in the			
1		d) Mouth ✓ e) Upper respiratory tract				
9.	Ricketts	ia species in the Spotted Fever Gr	oup include all the fo	llowing	except	
	reienens	a) Rickettsia akari				
1	(	b) Rickettsia africae c) Rickettsia rickettsi d) Rickettsia prowazekii e) Rickettsia felis				
10.	. Not usef	ful in the laboratory diagnosis of R	ickettsia species			
		a) Vancomycin-containing Blood b) OX-19 strains of Proteus vulg c) Giemsa stain d) Tissue cultures e) Latex agglutination	d Agar			
11.	11. Orientia tsutsugamushi					
-	d b c	Causes epidemic typhus Transmitted to humans by the Facultative intracellular bacter Amoxycillin/clavulanic acid is	the drug of choice	niggers		
2. I	n the path	nogenesis of Coxiella burnetti				

a) Attaches to host cells using filamentous haemagglutinin

b) Large cell variant is the infective form

c) Active entry into the phagosome

d) Delays fusion of the phagosome with lysosomes to transform from small cell variant to large cell variant

[e] Intracellular multiplication is initialised in the cytoplasm

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13. Virulence factors of <i>Haemophilus influenzae</i> include all the following except  a) IgA <sub>1</sub> protease
b) Outer membrane proteins c) Adhesion proteins d) Capsule Type 3 secretion system
14. False about HACEK infections  a) Normal flora in the oral cavity  Responsible for 30% of cases of infective endocarditis  c) Blood is the specimen of choice  d) Haemophilus parainfluenzae only requires the accessory V factor for growth  e) Caused by fastidious organisms
15. Yersinia pestis a) Gram-positive rods
b) Obligate intracellular pathogen
The vector Xenopsylla cheopis is found worldwide Pneumonic plague is the classic form of the disease e) Catalase negative
16. Not useful in the laboratory diagnosis of Bordetella pertussis  a) Cephalexin b) Ammonia c) Oxidase strips d) Haemolytic strain of Strain
d) Haemolytic strain of Staphylococcus aureus Crystal violet
17. The following agent evades the host's immune system through antigenic variation of its pili
a) Staphylococcus epidermidis b) Streptococcus pneumoniae
d) Neisseria gonorrhoeae e) Bacillus anthracis
18. A false statement on the Eijkmann test used in water analysis
a) It is a non-differential test b) Uses McConkey media c) Incorporates a Durham tube d) The test is incubated at 44oc
e) Specific for thermo tolerant E.coli

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19. The most common fungal causative agent of		
a) Candida albicans b) Malassezia furfur Cryptococcus neoformans d) Coccidioides immitis e) Microsporum canis	inclinights in minimum comp	
20. The most suitable media for antimicrobial su	ceptibility assay tests	
Blood agar b) Nutrient agar c) Muller Hinton Agar d) Thayer Martin agar e) MacConkey agar		
21. Tissue biopsy revealing brown pigmented bra	nching septate hyphae would be observed	l in
a) Lobomycosis b) Chromomycosis c) Pheohyphomycosis d) Rhinosporodiosis Aspergillosis 22. Causative agents of eumycotic mycetom include a) Madurella grisei b) Pseudollescheria boydii c) Leptosphaeria senegalensis d) Acremonium spp e) Actinomadura madurae	le the following organisms except	
. The following specimen is normally sterile		
a) Throat swab  C) Urethral swab  c) Cerebrospinal fluid  d) Stool  e) Skin scrapings		
n urinary tract infections		
a) Staphylococcus aureus is the predor b) The bladder is fairly resistant to col commensal	ninant causative agent of bacterial U'onization due to the wide array of pre	TI

commensal × (c) Infection by E. coli is predominantly by hematogeneous spread

24.1

Chocolate Blood Agar is the medium of choice for culture of urine specimen Quantitative culture technique enables determination of significance of culture

#### 25. The following is not true of Enterotoxigenic E. coli

- a) Occurs due to an elevation in cellular cAMP level
- b) Is a common cause of traveler's diarrhea
- Pili facilitate the binding of the organism to the intestinal mucosa
- d) Attaching and effacing lesions seen in the small intestine are due to the destruction of the microvilli
- e) Colonize the small intestines >

### 26. Which of the following is not a characteristic of actinomycetes

- a) Gram-positive bacteria with branching filaments
- Possess a polysaccharide capsule
- Mainly soil saprophytes Cause chronic granulomatous infections in humans and animals
- Their cell wall contains muramic acid

#### 27. Klebsiella pneumoniae

- Possess a H-antigen on their surface
- b) Are oxidase positive
- c) Serotypes are based on the somatic antigen
- d) Synthesise siderophores that take-up iron bound to host proteins
- Express protein A that form pores on the cell membrane of the bacteria

#### 28. Enterobacteriaceae that express extended-spectrum B-lactamases (ESBL) hydrolyze the following antibiotics EXCEPT

- Ceftazidime
- Cefotaxime
- Ceftriaxone
- Meropenem
- Aztreonam

#### 29. Infections caused by Proteus mirabilis

- Are confined to the abdomen
- Predispose to systemic inflammatory disease syndrome
- Are mainly endogenous
- Catheter-associated urinary tract infections are often polymicrobial
- Multidrug-resistant isolates are rare.

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30. The following risk factors put individuals at risk of developing invasive candidiasis EXCEPT
a) Low birth weight premature neonates b) Gastrointestinal tract perforation c) Parenteral nutrition Central venous catheters e) Existing microbiome
31. Stain used in routine diagnosis of cryptococcal meningitis
a) Alberts stain b) Methylene blue stain c) India ink d) ZN-stain e) Spore stain
32. Pytiriasis versicolor is caused by
(a) Trichosporon beigelii b) Trichophyton mentagrophytes c) Microsporum canis d) Malassezia furfur e) Piedra hortae
33. A case of leprosy with poor cell-mediated immunity and numerous number of bacilli usually presents as the following form of disease:  a) Lepromatous  b) Tuberculoid c) Indeterminate d) Tubercles e) Leproid
34. Causative agents of watery diarrhea include all the following except  a) Enterotoxigenic E. Coli b) Vibrio Cholerae Yersinia enterocolitica d) Enteroinvasive E. Coli e) Enteroaggregative E. Coli
Enzyme produced by Helicobacter pylori whose presence is tested in biopsy specimens?  a) Coagulase  Urease
c) Hyaluronidase d) DNase

Catalase

36. The following are characteristics of Vibrio cholera except

a) Gram negative curved rods b) Oxidase negative

Motile

d) Produces yellow colonies on TCBS

e) The serogroups are based on the H antigen

37. Rapidly growing mycobacteria include

a) M. Scrofulaceum

b) M. Chelonei

65 M. Kansasii

d) M. Microti

M. Africanum

38. Otomycosis

a) Mostly occurs in adults

b) Can result from chronic antibacterial use

c) Most common organisms are Epidermophyton and Penicillium spp

(d)) Responsible for 10% of acute otitis externa

e) Common in cold, dry climates

39. Not true regarding Bacterial Vaginosis

a) Gardnerella vaginalis is a causative agent

b) Pungent Fishy odour is one of the symptoms

c) Clue Cells are the most reliable predictor of infection

(d) A soft papular lesion that breaks down into a painful bleeding ulcer is observed

e) Nugent Score is often used in diagnosis

40. The main virulence factor in TB pathogenesis is:

a) Bacteria's ability to survive inside the bronchi

Bacteria's ability to destroy the macrophage

Bacteria's ability to destroy the pulmonary tissue

Bacteria's ability to survive inside the macrophage

Bacteria's ability to survive inside the Ghon complex

41. Which of these media is used for culture of Entamoeba histolytica?

Macconkey ¥

Robbinson's

Novy-MacNeal-Nicolle medium

Sebaroud's

None of the above

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42. The nothers :
42. The pathogenic form of Trypanosoma brucei rhodesisnse is
Trypomastogote
c. Trophozoite
d. Microfilaria
e. Coracidium
43. Which of the following is a non-motile protozoon?
a. Trypanosoma cruzi
b. Leishmania donovani
c. Giardia lamblia
Cryptosporidium parvum
e. Balantidium coli
44. Which of the following drugs is conventionally used in the treatment of Fascioliasis
a. Suramin
b. Ivermectin
© Pyrimethamine
d. Triclabendazole
e. Metrifonate
45. Which of these statements is true regarding Giardia lamblia  a. It is largely transmitted sexually  b. Albendazole is the drug of choice for treatment of infection  Is transmissible feco-orally  d. Only exists in a trophozoite stage  e. Intermediate host is Man  46. Which of these is useful in diagnosing Taenia solium infection?  a. Identification of cysticerci in stool *  b. Identification of proglottids in blood  c. Identification of trophozoites in enterotest *  Identification of cysticerci in tissues  e. None of the above
47. The following features are associated with African Trypanosomiasis except  a) Hepatosplenomegaly b) Chancre c) Kerandel's sign d) Winter bottom sign  (e) Arch 5 test

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48. The following are larval stages of Cesto	odes except
a) Procercoid	
b) Coracidium	
d) Miracidium d) Onchosphere	
e) Cysticercoids	
	sause severe travellers' diarrhoea?
49. Which of the following parasitic infects	ons may cause severe travellers' diarrhoea?
Entamoeba coli Giardia lamblia	
c) Trichomonas hominis	
d) Chilomastix mesneli	
e) Balantidium coli	
50. Autoinfection usually occurs in infectio	n with
a) Taenia saginata	
b) Balantidium coli	
Taenia solium	
d) Hymenolepis diminuta e) Ascaris lumbricoides	
e) Ascaris iumoricoides	
51. Mode of infection of Dracunculus media	nensis is:
a) Ingestion	
b. Inhalation	
c. Skin penetration	
d. Inoculation by Cyclops	
e. Inoculation by Chrysops	
52. The dog is a definitive host of which of thes	e parasites?
a. Hymenolepis diminuta	
b. Hymenolepis nana	
c. Taenia saginata	
d. Dipylidium caninum	
e. None of the above	
53. Oncospheres of the eggs of all these parasite	es have 3 pair of hooklets except?
a. Taenia saginata	os nave a pair of nookiets except?
6) Taenia solium	
c. Echinococcus granulosus	
d. Hymenolepis nana	000
e. Dipylidium caninum	,
o. Dipyhalam caninum	

which of these drugs is used for intermittent presumptive treatment of mal	aria in pregnans,
a. Chloroquine	
b. Quinine	
Amodiaquine Amodiaquine	
d. Sulphadoxine-Pyrimethamine	
e. Artemesinin-Halofantrine	
55. Which of these statements about Babesiosis is not true:	
Is caused by a non-motile protozoal parasite	
b. Clindamycin is useful for treatment of the infection	
c. Is transmitted by ticks	
d. Trophozoites are found in human blood	
e. All of the above	
56. What is the correct sequence of the stages in the life cycle of Schistosoma	haematobium?
56. What is the correct sequence of the stages in the life cycle of seminary	1
a. Egg - schistosomulum - miraeidium - cercana dadie	ed
Egg – cercaria – schistosomulum – miracidium – adult	Miller
c. Egg – miracidium – cercaria – metacercaria – adult	ce.
Egg - miracidium - cercaria - schistosomulum - adult	+
e. Egg – miracidium – metacercaria – schistosomulum – adult	5-
57. Which of these statements about Schistosoma haematobium is true?	
Adults are hermanhrodites w toa	
Has two intermediate hosts in its life cycle	-
e. Adults attach to the host using hooks	
d. Adults attach to the host danighteen	
At fab - about	
e. None of the above	
58. Which of these have microfilaria that may exhibit nocturnal periodicity?	
(a.) Loa loa	
b. Onchocerca volvulus *	
D. Onchocerca vorvaras	
C. Mansonella perstans  Wuchereria bancrofti	
Wuchereria bancroju	
e. None of the above	
59. For which of these parasites do hyraxes act as the animal reservoir?	
a. Leishmania donovani	
b. Leishmania tropica	
c. Leishmania major	
d.) Leishmania ethiopica	
e. All of the above	
0. Infection with which of these parasites is self-healing?	
a. Leishmania donovani and Leishmania major	
and donovani and Leisinnania major	

Leishmania major and Leishmania ethiopica

Leishmania donovani and Leishmania tropica

Leishmania tropica and Leishmania ethiopica

Leishmania tropica and Leishmania major

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· · · · · · · · · · · · · · · · · · ·	
61. Each of the following statements concerning malaria is correct except:	
a. The female anopheles mosquito is the vector	
h In early infection, sporozones enter neparty is a sign cycle	ract
c. Has both sexual and asexual reproduction in its life cycle  Principal site of gametocyte formation is the human gastrointestinal to	400
e. May cause severe anaemia	
62. In malaria, what stage is transmitted from mosquito to humans	
Sporozoite	
b. Gametocyte	
c. Merozoite	
d. Hypnozoite	
e. None of the above	
63. Which of the following statements regarding Plasmodium falciparum is true?	, Local
le associated with relapses after treatment because of fivel hyprocess	es July
Can be transmitted by female Aedes mosquitoes &	
c. Can be treated with primaquine	
d. Schizonts are rarely seen in blood	
None of the above	
Site developmental forms?	
64. Which of these parasites has a tachyzoite as one of its developmental forms?	
a. Plasmodium vivax	
b. Balantidium coli	
d. Mansonella perstans •	
e. Trichinella spiralis ·	
65. Swimmers itch may be present during infection with:	
a. Necator americanus	
b. Strongyloides stercoralis	
c. Enterobius vermicularis	
d.) Schistosoma japonicum	
e. Oncocerca volvulus	
c. Onecocica voivalus	
66. The second intermediate host for Fasciolopsis buski is	
a. Crab	-
(b.) Watercress	
c. Water chestnut	
d. Brackish water fish	
e. Snail	
144.	
Which of the following does not infect the liver?	

Schistosoma japonicumv

Fasciolopsis buski 🗸

Opisthorchis viverrini
d. Fasciola hepatica

Schistosoma mansoni

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a. Dermatitis  b. Cough			
a. Dermatities not a clinical pres	sentation of Stronge	diacibic	
	S. S	The state of the s	
d Woish		111	
d. Weight loss			
e. Periorbital oedema			
O contai dedema			
69. Which of the following drugs is useful in the tre		Triching	ella spiralis?
a. Metronidazole	eatment of infectio	n caused by Tricinin	ciid Spirit
Albendazole			
c. Diethylcarbamazine			
Praziquantola			
e. All of the above			
c. All of the above			
70. Which one of the following strategies is not use	-ful in the provent	tion and control of	Entamoebo
histolytica?	stut in the prevent	tion and control	
a. Hand washing before handling food			
b. Use of pit latrines for disposal of fecal r			
Screening and treatment of food handl			
Treatment of cyst passers using albend	azole		
e. Water treatment			
71. The parasite that causes tungiasis is the			
a. Flea			
b. Mite			
C Louse			
d. Tick			
e. Screwworm fly			
72. Which one of the following is not a clinical pres	sentation of Onc	hocerciasis	
a. Blindness			
b. Hanging groin			
Winter bottom sign			
d. Skin pruritus			
e. Leopard-like skin appearance			
c. Leopara ince similappearance			
73. Which of the specimens below are useful in the	e diagnosis of to	oxoplasmosis in	humans?
(a.) Blood and stool			
b. Urine and blood *			
c., Stool and amniotic fluid			
d. Amniotic fluid and blood		*	
e. Muscle biopsy and blood			

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74. The tick is an intermediate host for  a. Ascaris lumbricoides  b. Diphylobothrium latum  Hymenolepis diminuta  d. Babesia microti	
75. The Chrysops fly is a biological vector for	
b. Onchocerca volvulus c. Wuchereria bancrofti	
d. Brugia malayi e. Trypanosoma gambiense	
	obothriasis?
76. Which one of the following is a complication diphyll	Obotimiasis
a. Amoeboma  Megaloblastic anaemia  Pneumonitis	
d. Liver abscess	
e. Hepatoma	
77. Which of the following is the most useful in the diag	gnosis of infection with Capillaria hepatica in
humans?	
a. Urine	
Liver biopsy	
c. Stool d. Cerebrospinal fluid	
e. None of the above	
78. Which of these statements is true regarding Toxopi	asma gondii
a. It is largely transmitted sexually	
b. Albendazole is the drug of choice for treatn	nent or infection
c. Only exists in a tachyzoite stage	
d. Infection may present with pruritus of the	vagina
f. None of the above	n its prevention
79 The intermediate best for Dinbullabethulum latum	10 JE184
79. The intermediate host for Diphyllobothrium latum i	is v
Cyclops  Copened	
c. Copepod	
Snail*	
e. Chrysops	

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80. In which of the following parasitic infections is proper cooking of fish before con	sumption useful in
Capillaria philipinensis	
b. Trichinella spiralis	
c. Capillaria hepatica d. Necator americanus	
d. Necator americanus e. All of the above	
\$1. One of the following statements is FALSE about influenza viruses	
Replication occurs in the nucleus	
b. They have a segmented genome	
d. Can infect chicken, ducks and horses	0 2
e. Vaccines are an important part of prevention and control	P
82. About uncoating inhibitors used in treatment of influenza:	
a. Include Rimantadine, amantadine and peramivir	
b. Include Zanamivir and Oseltamivir	
Are active against Influenza A, not B or C  d. Resistance against them is rare	
e. They block viral release	
3. One of the following malignancies is associated with an RNA virus	
a. Cervical cancer	
Hepatocellular carcinoma	
c. Burkitt Lymphoma	
d. Nasopharyngeal Cancer	
e. Kaposi sarcoma	
One of the following conditions is CURABLE using antiviral agents	
a. HIV	
b. Herpes labialis	
Hepatitis C	
d. Yellow fever	
e. Genital herpes	

- 85. Paramyxoviridae includes the following viruses EXCEPT:
  - a. Measles
  - b. Mumps Rubella

84.

- d. Parainfluenza viruses
- e. Metapneumovirus

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the days is characteristic for:
86. A rash that lasts three days is characteristic for:  a. Rubella
b. Dengue
Measles
e. Rocky mountain spotted fever
was isted with maculopapular rash EXCEPT:
87. The following viruses are usually associated with maculopapular rash EXCEPT:
Measles virus l' b. Herpes simplex virus l'
c. Mumps virus
d Rubella virus
e. Parvovirus B19
88. One of the following antiviral agents is wrongly matched with its target virus:
a. Lamivudinė – riepatitis D
b Dolutegravir – HIV*
c. Oseltamivir – Influenza
d. Ribavirin – Hepatitis C  e. Acyclovir – Cytomegalovirus
e.) Acyclovii – Cytolifegalovii as
89. One of the following is an emerging virus is:  a. MERSCoV that was identified within 6 years ago  b. Zika that is now affecting an area where it wasn't before  c. One that is causing clinical symptoms different from previous episodes  d. One that is infecting a new population of people that was not affected previously
e. All of the above
90. The following are characteristics of abnormal prion proteins EXCEPT:  They induce a strong immune response
<ul> <li>b. They are resistant to proteases</li> <li>c. They reproduce through conversion of normal Pr<sup>C</sup> into Pr<sup>SC</sup></li> </ul>
d. They can be transmitted by cooked beef
e. They accumulate in neurons
c. They accumulate in fieurons
91. One of these viruses is associated with infection of respiratory tract and is a member of the
picornaviridae family
a. Coronavirus
b. Influenza virus
C./Rhinovirus
d. Measles virus
e. Adenovirus

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- 92. Insertional mutagenesis is a strategy used by these viruses to induce cancer in infected
  - a. Adenoviruses
  - b. Parvoviruses
  - c. Hepadnaviruses
  - d. Papillomaviruses
  - e.) Retroviruses
- 93. This virus test is referred to as a "Direct Detection" test,
  - a. PCR
  - b. Antigen ELISA
  - c. Electron microscopy
  - d. Immunoflourescence assay (IFA) test
  - e.) All of the above
- 94. Rotaviruses (associated with diarrhea) replicate and mature using this process
  - a. Budding
  - b. Lysis
  - c. Endosome formation
  - d. Exocytosis
  - None of the above
- 95. Viroids are
  - a. Infectious proteins
  - b. Infect humans
  - c. Circular DNA molecules
  - d. Cause central nervous system infections
  - e. None of the above
- 96. Influenza and parainfluenza viruses
  - Belong to different families
  - b. Contain segmented RNA genomes
  - Replicate in the cytoplasm
  - d. Cause systemic infections
  - e. None of the above
- 97. Infection with this virus within the 1st three months of pregnancy can result in developmental defects such as cataracts, deafness, and mental retardation
  - Rubella virus
  - Measles virus
  - **CMV**
  - d. HIV-1
  - e. All of the above

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- 98. Nucleoside reverse-transcriptase inhibitors (NRTIs) can be used to treat infections with this virus
  - a. Herpesviruses
  - b. Rhinovirus
  - c. Paramyxovirus
  - d. Influenza virus
  - Hepatitis B virus
- 99. Latency and reactivation is an important characteristic of this virus
  - a. Human T-Lymphotropic Virus type 1 (HTLV-1)
  - b. Measles virus
  - Varicella-zoster virus (VZV)
  - d. Adenovirus 21
  - e. Poliovirus
- During the "window" period in HIV-1 infection, exposed persons should be tested for infection using
  - a. Microscopy
    - Antibody ELISA
  - c. Western blot
  - d. Polymerase-chain reaction
  - e. Rapid tests

NEND