

PU NCIT - 14

REG. NUMBER

SPP 23 X.

Zoonosis

- Vector - *Xenopsylla cheopis*
 - Reservoir - rodents - rats, squirrel blockage
 - Transmission - bite by flea → ^{regurgitation into the wound}
Yersinia pestis → bubonic plague, septicemic plague
 - Pneumonic plague - Germs
- Pneumonic plague to humans. (5 marks)

QNA: SEQ

- a) Write short notes on the transmission of *Yersinia pestis* to humans. (5 marks)
- b) Write short notes on *Histoplasma capsulatum capsulatum*. (5 marks)
- c) *Pneumonia* - Atypical pneumonia
Write short notes on clinical manifestations of infection by pathogenic species (5 marks)
- d) *Pneumonia* - ^{unusual} *Mycoplasma*, and indicate the causative agent. (5 marks)
- e) *Ureolyticus* - Urogenital
Write short notes on virulence factors associated with uropathogenic strains of *E. coli*. (5 marks)

Effect

- Fimbriae ✓
- Capsule ✓
- Flagella ✓
- Toxins ✓
- Endotoxin

[Total 20 marks]

Life cycle

Typical - Pig - Man

(5 marks each)

Adult

↓
Proglottid↓
Egg↓
Ingest↓
Intesti↓
hepati↓
Sphacel↓
Penet↓
Vagina↓
Pess↓
Lan↓
Mac↓
E.↓
in↓
So↓
E.

Write short notes on each of the following:

- a) Life cycle and complications of *Taenia solium* (5 marks)
- b) Pathology and clinical manifestations of *Fasciola hepatica*. (5 marks)
- c) Laboratory diagnosis and treatment of *Plasmodium falciparum*. (5 marks)
- d) Prevention and control of *Wuchereria bancrofti*. (5 marks)

Complicated

Quinine - II

Artemisinin - IM/IV

Others

Uncomplicated falciparum, non-multidrug resistant (5 marks)

A + Artemisinin - ^{beta} resistant

A + Sulfur/pyrimidine - A + primaquine

A + lumefantrine

[Total 20 marks]

- CBC - Aciduria

- PCR, Orange

* Biopatch, ^{skin} _{serum} ^{saliva} _{urine}

Outline the use of Hepatitis B surface Antigen (HBsAg) and surface antibody (anti-HBs) in laboratory diagnosis of Hepatitis E virus infection. (5 marks)

Please Briefly discuss approaches used in the production of live attenuated and killed viral vaccines. (5 marks)

[Total 10 marks]

1. HBsAg - Infection marker - Immunity?
 ✓ anti-HBsgM - Acute - latent?
- ✓ anti-HBsgG - Chronic. + Immunity

* Viral \ominus Virion capsid
Virulence factorsWhole / attenuated
killed

SECTION B : MCQ

1. Which of the following statements about *Brucella* spp. is false
 - a) Their prime targets are macrophages
 - b) There is temporary fusion of the *Brucella*-containing vacuole with the lysosome
 - c) Bone and joint involvement is the most frequent complication of brucellosis
 - d) *Brucella* species have a high infectious dose**
 - e) They are facultative intracellular pathogens

2. True about *Haemophilus influenzae*
 - a) Motile ✓
 - b) Capsule contains polyribosy-ribitol phosphate**
 - c) Obligate pathogen ✗
 - d) Grows luxuriously on blood agar ✗
 - e) Vaccines are available for serotypes a, b and c ✗ *Hib*

3. Which of the following organisms is not a member of the spotted Fever Group Rickettsia
 - a) *Rickettsia africae*
 - b) *Rickettsia rickettsii*
 - c) *Rickettsia conori*
 - d) *Rickettsia askari*
 - e) *Rickettsia prowazekii***

4. Which of the following is not useful in the species identification of *Candida* spp.
 - a) Chromagar
 - b) Chlamydospore production ✓
 - c) Carbohydrate assimilation ✓
 - d) Carbohydrate fermentation ✓
 - e) Birdseed agar**

5. Which of the following is false about *Pasteurella multocida*
 - a) Capsulated ✓
 - b) Produces dermonecrotic toxin ✓
 - c) Bites or scratch hands from pets is an important mode of transmission ✓
 - d) Amoxicillin/clavulanic acid is the combination of choice ✓
 - e) Forms spores when exposed to unfavourable conditions ✗**

6. Laboratory characteristics of *Francisella tularensis* include all the following EXCEPT
 - a) Gram-negative coccobacilli ✓
 - b) Anaerobic**
 - c) Grows on cysteine heat blood agar to form greenish-blue colonies ✓
 - d) Demonstration of spores is not indicated ✓
 - e) In the Gram stains of the specimen, the organisms may be found intracellularly

7. Which one of the following is not a virulence factor of *Bordetella pertussis*?
 - a) Type III secretion system ✓
 - b) Filamentous haemagglutinin (FHA) ✓
 - c) Tracheal cytotoxin ✓
 - d) Dermonecrotic toxin
 - e) TspA protease**

False about pathogenesis of Mycobacterium tuberculosis

- a) Fusion of the phagosome with Lysosomes occurs ✓
- b) Phagocytosis by resident alveolar macrophages ✓
- c) Formation of multinucleated giant cells ✓
- d) Foamy macrophages form part of the TB granuloma ✓
- e) Epithelioid macrophages form part of the TB granuloma ✓

block phagosome
acid fast

Which of the following is true about Atypical mycobacteria

- a) High virulence ✓
- b) Saprophytes of soil and water ✓
- c) Cause disease in immune competent individuals ✗
- d) Sensitive to many anti-TB drugs ✗
- e) Do not commonly cause pulmonary infection ✗

Which of the following clinical conditions is not part of superficial mycoses

- a) Pityriasis versicolor ✓
- b) Black piedra ✓
- c) Seborrhoic dermatitis ✓
- d) Chromoblastomycosis ✓
- e) Mycotic keratitis ✓

intrafungal

The following clinical manifestations are seen in vibrio cholera EXCEPT

- a) Sudden onset of effortless vomiting ✗
- b) Profuse watery diarrhoea ✓
- c) Rapid dehydration ✓
- d) Hypersensitivity shock ✓
- e) Muscle cramps ✓

Which of the following bacteria colonizes moist environmental hospital sites

- a) Proteins
- b) Klebsiella
- c) Pseudomonas ✓
- d) Enterococcus
- e) staphylococcus

Complications associated with untreated cases of campylobacter jejuni infections include the following EXCEPT:

- a) Toxic megacolon ✓
- b) Reactive arthritis ✓
- c) Guillain-Barre syndrome ✓
- d) Rheumatic fever ✓
- e) Hemolytic uremic syndrome ✓

The following statements is not true of klebsiella pneumoniae

- a) Has the ability to produce extended spectrum beta-lactamases
- b) Is associated with bloody mucoid sputum ✓
- c) It can cause urinary tract infections especially in patients with urinary catheters ✓
- d) It is encapsulated ✓
- e) It is a normal flora of the conjunctiva ✓

Notice
some - like
Normal
Klebsiella
Non - M.

2014
2015

THIRD YEAR

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15. Bacterial pathogen associated with neonatal meningitis
a) Staphylococcus aureus
b) Bordetella pertussis
c) Neisseria gonorrhoeae
(d) Escherichia coli
e) Salmonella paratyphi
16. Virulence factor in helicobacter pylori infection
a) IgA protease
b) Capsule
c) Haemolysin
d) Enterotoxin
(e) urease
17. The following are gram-negative rods EXCEPT
a) Escherichia coli
b) Proteus mirabilis
(c) Corynebacterium diphtheriae
d) Bordetella pertussis
e) Pseudomonas aeruginosa
18. Infections with dermatophytes is most often associated with
a) Intravenous drug abuse
b) Inhalation of the organism from contaminated bird feces
(c) Adherence of the organism to perspiration moist skin
d) Fecal-oral transmission
e) Trauma
19. The following is true of pathogenesis of fungi EXCEPT:
(a) Production of capsules
b) Secretion of mycotoxins
(c) Ability to acquire iron from red blood cells
d) Adhere to host cells by way of cell wall glycoproteins
e) Production of haemolysins
20. Colony count that is considered significant to be termed as urinary tract infection is
a) Less than 10^3 organisms/mL
b) $10^4 - 10^5$ organisms/ml
c) Any number of pathogens
(d) $> 10^5$ organisms/mL
e) < 10 white blood cells/ μL
21. Enrichment media include
a) Cysteine lactose electrolyte deficient medium
b) Chocolate blood agar
c) Lowenstein-Jensen medium
(d) Alkaline peptone water
e) Stuart's medium

Enlargement of inguinal lymph nodes is associated with

- a) Neisseria gonorrhoeae
- b) Candida albicans
- c) Lactobacillus spp
- d) Chlamydia trachomatis ✓
- e) E.coli

A stain used in microscopic examination of fungal culture

- a) Giemsa stain
- b) Lactophenol blue
- c) Methylene blue
- d) India ink ✓
- e) Haematoxylin and Eosin

Which of these is not a causative agent of mycetoma

- a) Pseudallescheria boydii
- b) Madurella grisea
- c) Actinomadura madurae ✓
- d) Leptosphaeria senegalensis
- e) Basidiobolus heptosporus

Causative agent of enteric fever

- a) Salmonella enterica typhi ✓
- b) Proteus mirabilis ✗
- c) E.coli
- d) Shigella boydii
- e) Vibrio cholerae

Fluconazole acts by inhibition of

- a) Protein synthesis
- b) Peptidoglycan synthesis
- c) DNA transcription
- d) RNA translation
- e) Ergosterol synthesis ✓

7. Common causative agent of neonatal meningitis.

- a) Streptococci pneumoniae ✗
- b) Group B streptococci ✓ Group A
- c) Haemophilus influenzae type b ✗
- d) Neisseria menengitidis
- e) Staphylococcus saprophyticus ✗

8. A screening test for syphilis

- a) Schick test ✗
- b) Treponema pallidum hemagglutination assay
- c) Widal test
- d) Motility test
- e) Rapid plasma reagent ✓ RPR, VDRL, WA

29. Endogenous infection in humans may be caused by
- a) Streptomyces somaliensis
 - b) Actinomadura madurae
 - c) Nocardia asteroides
 - d) Actinomyces israelii
 - e) Nocardia brasiliensis
30. A most likely infection to occur following exposure to sporothrix is
- a) Urinary tract infection
 - b) Pneumonia
 - c) Menengitis
 - d) Ulceratec skin lesion
 - e) Dissemination systemic infection
31. Organism which is most likely to fulfil Koch's postulates is
- a) Treponema pallidum
 - b) Haemophilus influenzae
 - c) Neisseria gonorrhoeae
 - d) Chlamydia trachomatis
 - e) Yersinia pestis
32. Leptospira species
- a) Cause human infections which are not detectable by serological tests
 - b) Are all human pathogens
 - c) Are not culturable artificially
 - d) Pathogenic strains are resistant to penicillin
 - e) Human infections are associated with septicaemia
33. Fildes-McIntosh jar is particularly useful for laboratory isolation of
- a) Streptococcus pneumoniae
 - b) Haemophilus ducreyi
 - c) Clostridium tetani
 - d) Micrococcus species
 - e) Pseudomonas putrefaciens
34. The main virulence property of the following organism is associated with acquired genetic material
- a) Treponema pertenue
 - b) Corynebacterium diphtheriae
 - c) Brucella melitensis
 - d) Streptococcus pyogenes
 - e) Neisseria meningitidis
35. Food borne gastroenteritis which is not due to effects of bacterial toxin is caused by
- a) Campylobacter jejuni
 - b) Salmonella Typhimurium
 - c) Bacillus cereus
 - d) Clostridium botulinum
 - e) Staphylococcus aureus

Pseudomonas aeruginosa

Which one of the following procedures would be most suitable for sterilization of intravenous fluid?

- a. Boiling & ✓
- b. Autoclaving ✓
- c. Treatment with a bactericid
- d. pasteurisation ✓
- e. Use of ultra violet light ✓

b. Pyrazinamide
c. Ethambutol
 Rifampicin ✓
 Fimocycline ✓

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Which statement is not true for blood cultures

- a) Large number of blood culture sets improves the isolation rate
- b) Ratio of broth to the volume of blood can influence the results
- c) Biphasic medium has more advantages than single phase liquid medium
- d) Anticoagulant used has no effect on bacterial growth
- e) Skin cleaning with antiseptic is recommended for better results

Secondary syphilis is characterized by

- a) Chancre
- b) Numerous spirochaetes in the blood circulation
- c) Gummatous lesions
- d) False negative non-treponemal test results
- e) Aortic valve abnormality

Fluorescence staining and microscopy are particularly useful and reliable in laboratory investigation of

- a) Disseminated Neisseria gonorrhoeae infection
- b) Genital tract infection by Chlamydia trachomatis
- c) Chancroid (Prodres)
- d) Neurosyphilis
- e) Bacterial vaginosis

Organism which forms large spherical structures containing spores infected lung tissue is

- a) Candida glabrata
- b) Malassezia furfur
- c) Phialophora verrucosa
- d) Coccidioides immitis
- e) Madurella grisea

Aspergillus species cause diseases in humans through the following mechanisms

EXCEPT

- a) Effects of mycotoxins on tissues ✓
- b) Colonization ✓
- c) Predilection for and enhanced growth in devitalized tissue
- d) Invasiveness ✓
- e) Hypersensitivity reaction ✓

Which of the following statements about Hepatitis B virus is FALSE?

- a) 90% of perinatal infection are likely to become chronic
- b) Infants are more likely to develop immune tolerant Hepatitis than adults ✗
- c) Hepatitis B e-Antigen is more reliable than HBV DNA PCR in predicting infectiousness ✓
- d) Less than 1% of infected adults develop Fulminant disease ✓
- e) Treatment is life long ✓

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42. One of the following oncogenic viruses does not integrate its genome into the host's genome:
- a) Hepatitis C virus
 - b) Human papillomavirus 16
 - c) HIV-1
 - d) Hepatitis B virus HBV
 - e) Rous sarcoma virus
43. Which of the following has the broadest antiviral spectrum
- a) Lamivudine
 - b) Ribavirin
 - c) Maraviroc
 - d) Interferon
 - e) Acyclovir
44. One of the following statements about influenza viruses is FALSE:
- a) They have eight copies of their genome ✓
 - b) They can infect birds, horses and pigs ✓
 - c) Rimantadine is only active against type A influenza virus
 - d) Amantadine has no cross-resistance with oseltamivir
 - e) It's an RNA virus that replicates in the nucleus ✓
45. One of the following antiretroviral agents is NOT effective for X4-tropic HIV
- a) Efavirenz
 - b) Enfuvirtide
 - c) Maraviroc
 - d) Raltegravir
 - e) Lamivudine
46. Passive immunization has:
- a) Long lasting protection X
 - b) No memory ✓
 - c) Develops after immune system has been exposed to an antigen
 - d) Memory
 - e) None of the above
47. One of the following cells does NOT belong to cells of innate immunity
- a) CD4-T-helper cells M
 - b) Macrophages
 - c) Neutrophils
 - d) Natural killer cells
 - e) None of the above
48. Which one of the following Adenoviruses is associated with gastrointestinal disease
- a) Adenovirus 39
 - b) Adenovirus 40
 - c) Adenovirus 45
 - d) Adenovirus 51
 - e) Adenovirus 30

3. Which one of the following is a method of sterilization of intravenous fluid?
- a) Boiling
 - b) Autoclaving
 - c) Treatment with a bactericid
 - d) pasteurisation
 - e) Use of ultra violet light

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- NSP4 is a viral enterotoxin associated with which virus
- a) Poliovirus
 - b) Adenovirus 41
 - c) Rotavirus
 - d) Ebola virus
 - e) Yellow fever virus

Which one of the following species of Rotaviruses is the most significant cause of human disease

- a) Rotavirus A
- b) Rotavirus B
- c) Rotavirus C
- d) Rotavirus D
- e) Rotavirus E

This paramyxovirus belongs to the morbillivirus genus

- a) Mumps virus
- b) Rubella virus
- c) Respiratory syncytial virus (R&V)
- d) Measles virus
- e) Influenza virus

"Fifth disease", a classical childhood exanthema (rash) is caused by this human pathogen

- a) Parvovirus B19
- b) Rubella virus
- c) Measles virus
- d) Human herpesvirus 3 (HHV-3)
- e) Human herpesvirus 6 (HHV-6)

Parotid gland swelling is associated with this human virus

- a) Rubella virus
- b) Parvovirus B19
- c) Measles virus
- d) Chickenpox virus
- e) Mumps virus

4. Deafness, cataracts, heart defects and mental retardation are some complications associated with in-utero transmission of this virus in the first trimester of pregnancy

- a) HSV-2
- b) HIV-1
- c) CMV
- d) Rubella virus
- e) Mumps virus

5. "Swimming pool". Conjunctivitis is associated with this virus infection

- a) Adenoviruses
- b) Corona virus
- c) Rotavirus
- d) RSV
- e) Yellow fever virus

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56. Intranuclear inclusion bodies is a likely characteristic of infection with this virus
- a) Rubella virus
 - b) SARS virus (Corona virus)
 - c) Human herpesvirus 6 (HHV-6)
 - d) RSV
 - e) Parainfluenza virus
57. Haemagglutination assay can be used for diagnosis of one of these viruses
- a) HIV-1
 - b) Poliovirus
 - c) Hepatitis E virus
 - d) Human papillomavirus
 - e) Influenza virus
58. Diagnosis of HIV-1 infection of an infant (9 months old) is best done with this laboratory test.
- a) Rapid test
 - b) Antibody ELISA
 - c) DNA PCR
 - d) Haemagglutination assay
 - e) Western blot
59. This laboratory test analyses DNA from patient blood sample and is very specific
- a) Northern blot
 - b) Western blot
 - c) Eastern blot
 - d) Southern blot
 - e) Dot blot
60. Transmissible spongiform Encephalitis (TSE) is caused by a:
- a) Virus
 - b) Bacteria
 - c) Parasite
 - d) DNA
 - e) Protein
61. Which one of the following is NOT a complication of infection with Entamoeba histolytica?
- a) Lung abscess ✓
 - b) Intestinal obstruction
 - c) Pericarditis ✓
 - d) Amoeboma ✓
 - e) Hepatoma ✓
62. Clinical presentations of Trichomonas vaginalis include all of the following EXCEPT
- a) Vulvovaginitis ✓
 - b) Dyspareunia ✓
 - c) Vaginal discharge ✓
 - d) Cancer of urinary bladder
 - e) Prostatitis ✓

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Which of the specimens below is not useful in the diagnosis of African trypanosomiasis?

- a) Cerebrospinal fluid
- b) Splenic aspirate
- c) Lymph node aspirate
- d) Blood
- e) None of the above

Which one of the following is an intermediate host for Diphyllobothrium latum?

- a) Copepod ✓
- b) Man
- c) Flea
- d) Onchoceraria snail
- e) All of the above

The infective form of Trypanosoma cruzi is

- a) Amastigotes
- b) Metacyclic trypomastigotes
- c) Epimastigotes
- d) Trypomastigotes
- e) Metacyclic amastigotes

Which of the following is NOT a clinical presentation in American trypanosomiasis?

- a) Romana sign ✓
- b) Megacolon ✓
- c) Cardiomegally ✓
- d) Winter bottom sign
- e) Chagoma

The Enterotest is useful in the diagnosis of infection with

- a) Enterobius vermicularis
- b) Entamoeba histolytica
- c) Balantidium coli
- d) Giardia lamblia
- e) Trichomonas hominis

→ Diphyllobothrium

8. Which of the statements below about Sparganosis is true?

- a) It is a zoonosis → a dx that can be transmitted from animals to humans
- b) Man is definitive host
- c) Coracidium is the infective form
- d) It is caused by a nematode
- e) Metronidazole is used in the treatment

9. Which of the following strategies is not useful in the prevention and control of infection with Giardia lamblia?

- a) Avoiding swimming when one has diarrhoea ✗
- b) Disposal of human faeces in pit latrine ✓
- c) Hand washing before handling food ✓
- d) Treatment of infected individuals
- e) None of the above

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70. The causative agent of Tungiasis is

- a) Crab louse
- b) Flea → Flea
- c) Screwworm fly
- d) Mite
- e) Pediculus humanus

→ cyst

71. The infective form of Entamoeba histolytica is

- a) Trophozoite
- b) Egg
- c) Cyst
- d) Miracidium
- e) Coracidium

pathogenic form → Trophozoite

72. Which of the following is the intermediate host for Schistosoma haematobium

- a) Biomphalaria snail
- b) Onchomelania snail
- c) Bulinus snail
- d) Copepod
- e) None of the above

73. Which of the following is not useful in the control and prevention of Toxoplasmosis?

- a) Blood screening ✓
- b) Thorough cooking of meat ✓
- c) Use of condoms
- d) Antenatal screening and treatment ✓
- e) None of the above

74. The vector for onchocerca volvulus is

- a) Phlebotomus spp.
- b) Chrysops spp.
- c) Simulium fly
- d) Aedes mosquito
- e) Anopheles mosquito

75. Which one of the following is a complication of infection with Diphyllobothrium latum?

- a) Liver abscess
- b) Megaloblastic anaemia ✓
- c) Convulsions
- d) Iron deficiency anaemia
- e) Lung abscess

76. Which of the drugs below are used to treat African trypanosomiasis?

- a) Suramin
- b) Amphotericin B
- c) Nifurtimox
- d) Praziquantel
- e) Diethylcarbamazine

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7. Which of the following parasites ~~can~~ cause jaundice
- (a) Ascaris lumbricoides
 - (b) Trichuris trichiura
 - (c) Necator americanus
 - (d) Ancylostoma duodenale
 - (e) Trichinella spiralis
8. Which of the following parasites is commonly associated with cysticercosis in humans
- (a) Hymenolepis nana
 - (b) Echinococcus granulosus
 - (c) Diphyllobothrium latum
 - (d) Taenia saginata
 - (e) Taenia solium
9. From the following select a drug that can be used to treat infections with Hymenolepis nana:
- (a) Praziquantel
 - (b) Hycanthone
 - (c) Diethylcarbamazine
 - (d) Ivermectin
 - (e) Artemisinin
10. Which is the infective stage of Toxoplasma gondii from cat?
- (a) Trophozoite
 - (b) Cyst
 - (c) Cercaria
 - (d) Oocyst
 - (e) Metacercaria
11. Which of the following parasites is associated with muscular dystrophy?
- (a) Farcocystis hominis
 - (b) Pneumocystis jirovecii
 - (c) Sarcocystis lindemannii
 - (d) Blastocystis hominis
 - (e) Giardia lamblia
12. Which is the definitive host for Echinococcus granulosus?
- (a) Jackal
 - (b) Gazelle
 - (c) Goats
 - (d) Cattle
 - (e) Humans
13. Which of the following is an important biological compound in snail control?
- (a) Copper sulphate
 - (b) Malathion
 - (c) Endod
 - (d) Fenitin
 - (e) DDT

84. Which of the following is an important vector of Leishmania donovani?
- a) Phlebotomus papatasi
 - b) Anopheles gambiae
 - c) Simulium damnosum
 - d) Rhodnius prolixus
 - e) Culicoides grahami
85. Which of the following parasites is frequently associated with hydrocephalus?
- a) Schistosoma haematobium
 - b) Schistosoma mansoni
 - c) Schistosoma intercalatum
 - d) Echinococcus granulosus
 - e) Toxoplasma gondii
86. Which of the following drugs is recommended for treatment of infections with Fasciola gigantica?
- a) Praziquantel
 - b) Bithionol
 - c) Artemisinin
 - d) Sodium stibogluconate
 - e) Clindamycin
87. Select an arthropod that is a host to Dipylidium caninum among the following:
- a) Bedbug
 - b) Louse
 - c) Flea
 - d) Simulium
 - e) House fly
88. Which of the following is a causative agent of human infections?
- a) Dermatobia hominis
 - b) Anopheles funestus
 - c) Cyclops spp.
 - d) Chrysops sp.
 - e) Ctenocephalides cati
89. Select a parasites that usually causes Splenomegaly in humans from the following:
- a) Cordylobia
 - b) Anthropophaga
 - c) Trichuris trichiura
 - d) Leishmania Donovani
 - e) Glossina swynnertoni
90. Which of the following is an effective vector of Yersinia pestis?
- a) Xynopsella cheopis
 - b) Cimex lectularis
 - c) Pediculus humanus
 - d) Pthirus pubis
 - e) Culex quenguifasciatus

- on the intravenous line
a. Boiling &
b. Autoclaving ✕
c. Treatment with a bactericid
d. pasteurisation ✕
e. Use of ultra violet light ✓

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Which of the following drugs can be used to treat myiasis

- a) Diethylcarbamazine
- b) Ivermectin
- c) Praziquantel
- d) Metronidazole
- e) Niclosamide

The definitive host of *Taenia saginata* is?

- a) Cattle
- b) Pigs
- c) Human
- d) Dogs
- e) Goats

Which of the following parasites cause rectal prolapse

- a) Ancylostoma duodenale
- b) Enterobius vermicularis
- c) Trichuris trichiura
- d) Ascaris lumbricoides
- e) Trichinella spiralis

4. Microcephally and hydrocephalus are associated with:

- a) Giardia lamblia
- b) Toxoplasma gondii
- c) Entamoeba histolytica
- d) Entamoeba hartmanii
- e) Entamoeba coli

5. Dysentry is commonly associated with parasitic protozoa

- a) Entamoeba gingivalis
- b) Giardia lamblia
- c) Entamoeba butschlii
- d) Entamoeba harmanii
- e) Entamoeba histolytica

6. The following parasites may cause intestinal obstruction in man

- a) Trichinella spiralis
- b) Necator americanus
- c) Ascaris lumbricoides
- d) Ancylostoma duodenale
- e) Trichuris trichiura

17. Which of the following have flagella

- a) Entamoeba coli - amebae
- b) Balantidium coli - ciliates
- c) Trichomonas vaginalis
- d) Entamoeba histolytica
- e) Entamoeba hartmanii

- a. Boiling &
- b. Autoclaving ✓
- c. Treatment with a bactericid
- d. pasteurisation
- e. Use of ultra violet light ✓

- b. Pyrazinamide ✓
- c. Ethambutol ✓
- d. Rifampicin ✓
- e. Tetracycline ✓

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- 17
- 11/11/11
- 12
98. CNS clinical manifestations occur in which infection
- a) Taenia saginata
 - b) Hymenolepis diminuta
 - c) Taenia solium
 - d) Trichinella spiralis
 - e) Echinococcus granulosus
99. The drug of choice for severe and complicated malaria is
- a) Arnodiaquine
 - b) Spectinomycine
 - c) Comaquine
 - d) Quinine
 - e) Metrifonate
100. Which of the following is not a soil transmitted helminth?
- a) Ascaris lumbricoides
 - b) Strongyloides stercoralis
 - c) Brugia malayi ✓
 - d) Necator americanus
 - e) Ancylostoma duodenale