

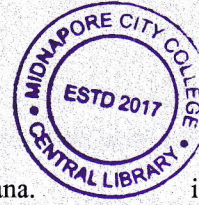
The West Bengal University of Health Sciences
2nd BMLT February - March, 2023 Examination

Subject: Medical Parasitology, Mycology, Virology & Entomology

Time: 3 hrs

Full Marks: 100

Attempt all questions



20 x 1

1. Tick the correct answer :

- a) All are protozoa except :
 i) E. Histolytica. ii) G. lamblia. iii) H. nana. iv) N. fowleri.
- b) Infective form of E. histolytica is :
 i) Uni-nucleated cyst. ii) Pre-cyst. iii) Trophozoite. iv) Tetra-nucleated cyst.
- c) Which one of these is a RNA virus?
 i) Parvovirus. ii) Adenovirus. iii) Rotavirus. iv) EB virus.
- d) Infective form of Plasmodium falciparum to human is :
 i) Merozoite. ii) Trophozoite. iii) Gametocyte. iv) Sporozoite.
- e) Which cells are infected by HIV most often?
 i) CD₄+T. lymphocyte. ii) CD₈+ T. lymphocyte. iii) Null cells. iv) B lymphocyte.
- f) Which of the following is not a mould?
 i) Aspergillus. ii) Penicillium. iii) Cryptococcus. iv) Mucor.
- g) Fasciola hepatica is an endoparasite that lives in the :
 i) Liver of sheep. ii) Blood of sheep. iii) Spleen of sheep. iv) Intestine of sheep.
- h) Miracidium is a larval stage in the development of :
 i) Taenia solium. ii) Fasciola hepatica. iii) Ascaris. iv) Echinococcus.
- i) The intermediate host of Fasciola is :
 i) Limnaea truncatula. ii) Pila globosa. iii) Lamelidens. iv) None of these.
- j) The intermediate host in the cycle of Taenia saginata is :
 i) Pig. ii) Goat. iii) Dog. iv) Cattle.
- k) The rounded head of tapeworm is called :
 i) Proglottids. ii) Scolex. iii) Neck. iv) Joint.
- l) The larvae of Taenia solium causes :
 i) Cysticercosis. ii) Taeniasis. iii) Phyllobothrium. iv) Dysentery.
- m) Which is the infective stage of Wuchereria?
 i) L1. ii) L2. iii) L3. iv) Both (i) & (iii).
- n) The most common site for amoebiasis is :
 i) Cecum. ii) Sigmoid colon. iii) Transverse colon. iv) Hepatic flexure.
- o) What is the morphology of the herpes virion?
 i) Complex with a membrane and tegument and icosahedron core.
 ii) Baggy virion with over 50 types of spikes.
 iii) Compact icosahedron structure.
 iv) Small round virus.
- p) Which of the following subfamily contains the Epstein-Barr virus?
 i) Alphaherpesviridae. ii) Betaherpesviridae.
 iii) Gammaherpesviridae. iv) Thetaherpesviridae.
- q) The Epstein-Barr virus replicates in the epithelial cells of the :
 i) Pancreatic glands. ii) Salivary glands. iii) Skin. iv) Kidney.

P. T. O.

- r) When infectious mononucleosis is suspected, all the following tests can be useful EXCEPT ONE :
 - i) IgM antibody to EB-VCA.
 - ii) IgG antibody to EB-VCA.
 - iii) Antibody to EB-NAs.
 - iv) Culture.
- s) Adenoviruses mainly cause :
 - i) Respiratory infections.
 - ii) Heart disease.
 - iii) Brain infection.
 - iv) Gastrointestinal infections.
- t) Amoebiasis is transmitted by :
 - i) Direct contact with dirty hands.
 - ii) Sexual contact.
 - iii) Faecal contamination of drinking water and food.
 - iv) All of these.

2. Answer the questions briefly : 5 x 2

- a) Differentiate between virus and bacteria.
- b) Classify dermatophytes.
- c) Differentiate between T solium and T saginata.
- d) Morphology of adenovirus.
- e) What is cytopathic effect?

3. Write short notes on **any six** of the following : 6 x 5

- a) Virus culture method.
- b) Bacteriophage.
- c) Life cycle of Leishmania.
- d) Lab diagnosis of Ascaris.
- e) Pre erythrocytic shizogony.
- f) Rapid antigen test for malaria.
- g) Concentration method of stool examination.
- h) Fly control measures.

4. Answer **any one** of the following : 1x10

- a) What is cysticercosis? Write down the laboratory diagnosis & treatment.
- b) Classify dermatophytes. Write down the lab diagnosis of histoplasmosis.

5. Answer **any two** of the following :

- a) Write down the morphology and lab diagnosis of Hepatitis B. Write short note on dengue. 10+5
- b) Define medical entomology. Mention the life cycle and lab diagnosis of adult hook worm. 2+6+7
- c) Write down the lab diagnosis of cryptococcosis. Write down the Lab diagnosis of rabies. Write short note on mumps virus. 5+5+5