

**BACHELOR OF MEDICAL LABORATORY
TECHNOLOGY
FIFTH SEMESTER
MICROBIOLOGY V
BMLT – 504**
(USE OMR SHEET FOR OBJECTIVE PART)

2024/11

**SET
A**

Duration: 3 hrs.

Full Marks: 70

Time: 30 min.

(Objective)

Marks: 20

1×20=20

Choose the correct answer from the following:

1. *Candida albicans* can be differentiated from other species by
 - a. Gram staining
 - b. Chlamydospore formation
 - c. Germ tube test
 - d. Both b and c
2. Which form of malarial parasite is infective to human?
 - a. Ring form
 - b. Sporozoite
 - c. Gametocyte
 - d. Merozoite
3. Disadvantage of thin smear is
 - a. Parasite may escape during low count in blood
 - b. Its distorted the morphology of parasite
 - c. Dehaemoglobinization is needed
 - d. Both a & c
4. Parasitism means
 - a. Host and parasite depend on each other
 - b. Only parasite deriving benefit from host without harming it
 - c. Both host and parasite get benefited
 - d. The parasite derives benefit and host suffers
5. Encystation means
 - a. Formation of Cyst to Trophozoite
 - b. Formation of Trophozoite to cyst
 - c. It is infection stage of parasite
 - d. None of the above
6. Infective stage of *Entamoeba histolytica*
 - a. Uni-nucleated cyst
 - b. Quadri-nucleated cyst
 - c. Bin-nucleated cyst
 - d. Trophozoite
7. Ectoparasite means
 - a. A parasite which lives external surface of host
 - b. A parasite which lives internal surface of host
 - c. Organism which cannot exist without host
 - d. None of the above
8. External amoebiasis occurs in
 - a. Liver
 - b. Lung
 - c. Brain
 - d. All of the above

9. How many flagella are there in trophozoite of *Giardia lamblia*
 - a. One pair
 - b. Two pair
 - c. Three pair
 - d. Four pair
10. In malaria pre-erythrocytic schizogony occurs in
 - a. Blood
 - b. Liver
 - c. Kidney
 - d. None of the above
11. Which of the following is the largest protozoa
 - a. *Balantidium coli*
 - b. *Giardia lamblia*
 - c. *L. donovani*
 - d. *Entamoeba histolytica*
12. *T. vaginalis* in woman may produce
 - a. Asymptomatic
 - b. White discharge
 - c. Yellow discharge
 - d. All of the above
13. Production of colour shows negative result in
 - a. Indirect ELISA
 - b. Competitive ELISA
 - c. Sandwich ELISA
 - d. Direct ELISA
14. Iodine wet mount is done to detect
 - a. Cyst
 - b. Trophozoite
 - c. Both a & b
 - d. None of the above
15. Which of the following parasite is found in brain
 - a. *E. histolytica*
 - b. *Ascaris*
 - c. *Naegleria fowleri*
 - d. *Trichomonas vaginalis*
16. Parasite which may transmitted through sexual contact
 - a. *Trypanosoma cruzi*
 - b. *Ascaris lumbricoides*
 - c. *Trypanosoma brucei*
 - d. *T. vaginalis*
17. Reynold-Braude Phenomenon seen in
 - a. Carbohydrate fermentation test
 - b. Skin test
 - c. Chlamydospore
 - d. Germ tube test
18. Which of the following not part of systemic candidiasis
 - a. UTI
 - b. Oral Thrush
 - c. Meningitis
 - d. Sepsisemia
19. Athlete's foot cause by
 - a. *Tinea capitis*
 - b. *Tinea corporis*
 - c. *Tinea barbae*
 - d. *Tinea pedis*
20. String test done for
 - a. *Balantidium coli*
 - b. *Giardia lamblia*
 - c. *L. donovani*
 - d. *Entamoeba histolytica*

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(Descriptive)

Time : 2 hrs. 30 min.

Marks : 50

[Answer question no.1 & any four (4) from the rest]

1. Write different types mycoses. Name different types ringworm along with site involves. Classify dermatophytes based on genera and habitat. 2+4+4
=10
2. Write morphology, pathogenesis, lifecycle and prophylaxis of Entamoeba histolytica. 10
3. Write morphology, pathogenesis, lifecycle and prophylaxis of P vivex.
4.
 - a. Write short notes on Candida albicans. 7+3=10
 - b. Explain pathogenesis of parasitic infection
5.
 - a. Describe briefly about formal ether concentration technique. 6+4=10
 - b. Classify the Parasite
6.
 - a. Write short notes on host parasite interaction. 4+6=10
 - b. Impact of Parasitic infection in our society. Write the prevention of the parasite infection.
7.
 - a. Describe the morphology and life cycle and laboratory diagnosis of B.coli. 6+4=10
 - b. Name four medically important species of mosquitos and mentioned their recurrent fever duration.
8.
 - a. Write morphology and lifecycle of Giardia lamblia. 6+4=10
 - b. Write the preparation of thick and thin smear.

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