

(7 pages)

Reg. No. :

Code No. : 7992

Sub. Code : WMBM 21

M.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2024.

Second Semester

Microbiology — Core

MEDICAL BACTERIOLOGY AND MYCOLOGY

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (15 × 1 = 15 marks)

Answer ALL questions.

Choose the correct answer :

1. Lactobacillus and Bifidobacterium are some of the anaerobes that commonly colonizes the _____

(a) small intestine (b) large intestine
(c) oropharynx (d) hepatocytes

2. Which of the following microorganisms may require special transportation conditions due to sensitivity to changes in temperature?

(a) *Escherichia coli*
(b) *Neisseria meningitidis*
(c) *Streptococcus spp*
(d) *Salmonella typhi*

3. Which one of the following is known as helper virus?

(a) Prions (b) Viroids
(c) Satellite RNAs (d) Virusoids

4. _____ is a spindle shaped bacteria.

(a) Clostridium (b) Bacillus
(c) Neisseria (d) Pneumococci

5. Wool sorter disease is commonly known as _____

(a) Respiratory Botulism
(b) Anthrax
(c) Pneumonia
(d) encephalitis

6. Papovavirus are responsible for
 - (a) Causing warts in human
 - (b) Cervical cancer in women and mice
 - (c) Vacuoles in monkeys
 - (d) All the above
7. Borrelia is ————
 - (a) obligate anaerobe
 - (b) obligate aerobe
 - (c) capnophilic
 - (d) microaerophilic
8. HAI stands for ————
 - (a) Hospital acquired infection
 - (b) Hospital associated infection
 - (c) Both of them
 - (d) None of them
9. Regarding Pi Virus, Choose the correct statement(s)
 - (a) It is also referred as BA6
 - (b) It is a omicron variant
 - (c) It is identified through only genetic sequencing
 - (d) All the above

10. Fungal infection on the nailbed is caused by
 - (a) Tinea corporis
 - (b) Tinea pedia
 - (c) Tinea cruris
 - (d) Tinea unguium
11. Oppurtunistic mycoses caused by ————
 - (a) Blastomyces
 - (b) Histoplasma
 - (c) Coccidioides
 - (d) All the above
12. Toxoplamosis is spreaded by ———— faces.
 - (a) Rat
 - (b) Cat
 - (c) Monkey
 - (d) Dog
13. Disseminated sporothrix affects
 - (a) Bones
 - (b) Joints
 - (c) Central Nervous system
 - (d) All the above
14. Histoplamosis is ———— borne fungi.
 - (a) Air
 - (b) Water
 - (c) Soil
 - (d) Food
15. Ankylostomiasis attacks ————
 - (a) Human
 - (b) Cat
 - (c) Dog
 - (d) All the above

PART B — (5 × 4 = 20 marks)

Answer ALL questions, choosing either (a) or (b).

Each answer should not exceed 250 words.

16. (a) How do we classify medically important bacteria?

Or

- (b) Highlight the laboratory significance of rabbits.

17. (a) Record the pathogenesis of *Staphylococcus* sp.

Or

- (b) Are *Bacillus* sp problematic for us? —
Explain.

18. (a) Document the characters of *Mycoplasma*.

Or

- (b) Why do we say *Helicobacter* sp is dangerous?

19. (a) How do we classify fungal infections?

Or

- (b) Showcase the antifungal drugs used with their mode of actions.

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20. (a) Give your views on Mycetoma.

Or

- (b) Document about opportunistic fungi.

PART C — (5 × 8 = 40 marks)

Answer ALL questions, choosing either (a) or (b)

Each answer should not exceed 600 words.

21. (a) Showcase the tests done during microbiological examination of clinical specimens.

Or

- (b) Write an essay on antimicrobial susceptibility testing with neat diagrams.

22. (a) Why do we worry about *Clostridium* sp? Explain in detail.

Or

- (b) Illustrate pathogenesis, laboratory diagnosis and treatment of *Streptococcus* sp.

23. (a) *Rickettsia* sp is a threat for human society — Support.

Or

- (b) Describe in detail about Nosocomial infections.

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24. (a) Write an essay on *Candida* sp.

Or

(b) Enlist the testing methods and quality control procedures followed in a mycology laboratory.

25. (a) List out the importance of systemic mycoses.

Or

(b) Document about fungal immunodiagnostic methods employed.
