

(6 pages)

Reg. No. :

Code No. : 10384 E Sub. Code : EMMI 51

B.Sc. (CBCS) DEGREE EXAMINATION,
NOVEMBER 2025.

Fifth Semester

Microbiology — Core

Major — BACTERIOLOGY AND MYCOLOGY

(For those who joined in July 2023 onwards)

Time : Three hours

Maximum : 75 marks

PART A — (10 × 1 = 10 marks)

Answer ALL questions.

Choose the correct answer :

1. Which of the following is a transport media in clinical specimen?
(a) Carry-Blair
(b) Stuart transport media
(c) Amies media
(d) All the above

2. Normal flora of vagina is
(a) Clostridium (b) Candida
(c) Corneybacterium (d) Trichoderma
3. Which of the following coli form bacteria is predominant in the human gastrointestinal tract?
(a) Bacillus Ureus (b) Vibrio Cholerae
(c) Lactobacillus (d) E.Coli
4. Where does the Streptococcus mutans adhere to the body site?
(a) Intestinal tract (b) Tongue
(c) Teeth (d) Hairs
5. Which of the following is causative agent bacillary dysentery?
(a) Shigella (b) E.Coli
(c) Proteus (d) Vibro
6. Name the organism which cause infant blindness during birth
(a) Neisseria meningitidis
(b) Neisseria gonorrhoeae
(c) Nosocomal bacteria
(d) All the above

7. Cryptococcosis is a disease of
(a) viral infection (b) mycotic infection
(c) parasitic infection (d) bacterial infection
8. Which of the following is fungi is produces aflatoxin?
(a) *Aspergillus* (b) *Penicillin*
(c) *Mucor* (d) *Candida*
9. All of the following are live attenuated vaccine except
(a) MMR (b) Yellow fever
(c) Salk polio vaccine (d) Sabin vaccine
10. Which antifungal is often used for systemic fungal infection?
(a) Amphotericin
(b) Fluconazole
(c) Metronidazole
(d) Nystatin

PART B — (5 × 5 = 25 marks)

Answer ALL questions, choosing either (a) or (b).
Each answer should not exceed 250 words.

11. (a) Explain in detail about Koch's postulates.
Or
(b) Write essay on Host-Pathogen interaction.
12. (a) Discuss the factors influencing the staphylococcal infection in human being.
Or
(b) Illustrate the mode of entry and pathogenicity of Anthrax.
13. (a) Write short note on enteric fever in detail.
Or
(b) Discuss about *Treponema Pallidum*.
14. (a) List out the symptoms and steps adapted in cutaneous mycoses in treatment during diagnosis.
Or
(b) Describe in detail about histoplasmosis.

15. (a) What are antimicrobial agents? Explain their general characters and mode action on microbes.

Or

(b) Describe in detail about antifungal agent amphotericin.

PART C — (5 × 8 = 40 marks)

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

Each answer should not exceed 600 words.

16. (a) Describe the action of normal flora in healthy human host.

Or

(b) List out the collection and transport method of clinical specimen for bacterial infection.

17. (a) Explain the mode of entry of *Clostridium tetanus* and mention the mechanism of neuro toxin in human being.

Or

(b) Discuss the clinical significance, laboratory diagnosis and treatment of Tubercle bacilli.

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18. (a) Write a detailed note on *Neisseria meningitis*.

Or

(b) What are nosocomial infection? Mention their action in hospitalized persons.

19. (a) Describe in detail about superficial mycoses – *Tinea* sp.

Or

(b) Explain about candidiasis.

20. (a) Explain the mode of action antibiotics in nucleic acid, cell wall synthesis.

Or

(b) Write the importance of Griseofulvin in medicine field.

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