S–7012

Sub. Code
22BMC5C2

B.Sc. DEGREE EXAMINATION, APRIL 2025

Fifth Semester

Microbiology and Clinical Lab Technology

CLINICAL IMMUNOLOGY

(CBCS – 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** the questions.

1. Polymorpho nuclear Cells

2. Functions of Lymph

3. Adjuvants

4. Passive immunity

5. Precipitation

6. Attenuation

7. Mantoux test

8. Allograft

9. Immuno electrophoresis

10. EIA

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) Describe the mechanism of Phagocytosis.

Or

(b) Write short notes on most cells.

12. (a) What are the characteristics of an antigen?

Or

(b) Write brief notes on the differentiation and maturation of B Cells.

13. (a) How Monoclonal antibody is produced?

Or

(b) Summarize on viral vaccines.

14. (a) Describe Primary mediators and secondary mediators of Anaphylaxis.

Or

(b) How graft rejection can be prevented?

15. (a) Explain the principle and application of RIA.

Or

(b) Describe Ouchterlony double immunodiffusion and its application.

Part C (3 × 10 = 30)

Answer any **three** questions.

16. Draw and explain the structure and importance of Thymus.

17. How exogenous and endogenous antigens are processed and presented?

18. Explain the structure of an immunoglobulin. Mention the types of Immunoglobulin.

19. Explain the immunology behind graft rejection.

20. Give an account on the principle, applications of immuno fluorescence technique.

———————

S–7506

Sub. Code
22BMCA3

U.G. DEGREE EXAMINATION, APRIL 2025

Microbiology and Clinical Lab Technology

Allied — HOSPITAL INFECTION CONTROL PRACTICES

(CBCS – 2022 onwards)

Time : 3 Hours Maximum : 75 Marks

Part A (10 × 2 = 20)

Answer **all** questions.

1. What are the basic healthcare associated infection?

2. Explain the role of healthcare workers.

3. Define : Prevention.

4. Control of transmission.

5. Sterilization.

6. Contamination.

7. Gloves.

8. Hand hygiene.

9. Any two steps of BMWM.

10. Example for hazardous biomedical waste.

Part B (5 × 5 = 25)

Answer **all** questions, choosing either (a) or (b).

11. (a) What are the different levels of patient care?

Or

(b) Write the role of families in the infection control process.

12. (a) Spell out the routes of transmission of infections.

Or

(b) Analyze the importance of Universal precaution procedures.

13. (a) Comment on chemical methods of sterilizations.

Or

(b) Differentiate disinfection and sterilization techniques.

14. (a) Explain in brief the protective eye wears (goggles).

Or

(b) Discuss the steps involved in hand washing process.

15. (a) Describe the principles of waste management.

Or

(b) Short notes on biomedical waste management.

Part C

$(3 \times 10 = 30)$

Answer any **three** questions.

16. Write an essay on infection protection for healthcare workers.

17. Explain the components of standard precaution in infection transmission.

18. Discuss the disinfection of HIV contaminated devices.

19. Summarize the types of personal protective equipments.

20. Elaborate the WHO classification of BMWM.

———————