

Roll No. :

Total No. of Questions : 11]

[Total No. of Printed Pages : 3

BFMS-434

M.Sc. (Final) Examination, 2023

MICROBIOLOGY

Paper - VIII

(Medical Microbiology and Immunology)

Time : 3 Hours]

[Maximum Marks : 75

Section-A

(Marks : 2 × 10 = 20)

Note :- Answer all *ten* questions (Answer limit **50** words). Each question carries **2** marks.

Section-B

(Marks : 5 × 5 = 25)

Note :- Answer all *five* questions. Each question has internal choice (Answer limit **200** words). Each question carries **5** marks.

Section-C

(Marks : 10 × 3 = 30)

Note :- Answer any *three* questions out of five (Answer limit **500** words). Each question carries **10** marks.

Section-A

1. (i) Name *two* common types of hospital-acquired infections.
- (ii) Define Organotropism.
- (iii) Name the causative agent of typhoid. Which body organ is affected by this disease ?

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- (iv) What is walking Pneumonia ? Name its causative agent.
- (v) What is Nystatin ? Write its use.
- (vi) How does β -Lactam antibiotics work ?
- (vii) Name *four* chemicals which work as agents of innate immunity in human body.
- (viii) Name *two* primary immunological agents.
- (ix) What are Lymphocytes ? Write their two important properties.
- (x) What is ADCC ?

Section-B

2. Write a note on role of Microflora resident on human body.

Or

Write short notes on the following :

- (a) Microbial adhesion
- (b) Organotropism

3. Write a note on the Mumps and Measles.

Or

Write a note on the diseases caused by Herpes Simplex Virus (HSV) in humans.

4. How does Quorum sensing work in bacteria ?

Or

Discuss passive prophylactic measures.

5. Write a short note on Lymphocytes.

Or

What do you mean by antibodies ? Explain the structure of IgG using a well labelled diagram.

6. Write an explanatory note on Graft Rejection.

Or

What are autoantibodies ? Explain.

Section-C

7. Write notes on the following :
 - (a) Nosocomial infections
 - (b) Pathogenic invasion of mucus membrane
8. Write notes on the following :
 - (a) Mycoplasma
 - (b) AIDS
9. Write short notes on vaccines and their schedule. Add a note on various antibiotic assays.
10. (a) What do you mean by Innate Immunity ? Write a brief note.
 - (b) Major Histocompatibility Complex II
11. What is Hypersensitivity ? Explain hypersensitivity type I.