

[illegible]

Total No. of Questions : 09

M.Code : 48117

Max. Marks : 60

1. **SECTION-A** is **COMPULSORY** consisting of **TEN** questions carrying **TWO** marks each.
2. **SECTION-B** contains **FIVE** questions carrying **FIVE** marks each and students have to attempt **ANY FOUR** questions.
3. **SECTION-C** contains **THREE** questions carrying **TEN** marks each and students have to attempt **ANY TWO** questions.

1. Answer briefly :

- Define epitopes.
- What are T-cells?
- Name three subcutaneous mycoses.
- What is MMR vaccine?
- How will you prepare antibiotic disks?
- Name two opportunistic fungi.
- Write a short note on SDS-PAGE.
- How will you cultivate Fungi in the laboratory?
- Write a short note on VDRL.
- Define hypersensitivity.

SECTION-B

2. Discuss the direct microscopic examination of dermatophytes.
3. Write a note on antigen and antibody reactions.
4. Briefly explain the various culture media used in mycology.
5. Describe the principle, procedure and interpretation technique of Widal test.
6. Discuss the transmission of fungal infections by air and contact in laboratory.

SECTION-C

7. What are monoclonal antibodies? Explain in detail hybridoma technology.
8. What is complement system? Explain the classical pathway complement activation.
9. What are the causative agents of subcutaneous mycosis and describe their laboratory diagnosis.

NOTE : Disclosure of identity by writing mobile number or making passing request on any page of Answer sheet will lead to UMC against the Student.