

**M.SC. (MEDICAL MICROBIOLOGY) : WINTER - 2021**  
**SUBJECT : PAPER IV : IMMUNOLOGY AND PARASITOLOGY**

Day : Monday  
Date : 20-12-2021

Time : 1:30 PM TO 4:30 P.M.  
Max. marks : 100

W-2021-795

**N.B.**

- 1) Q.No. 1 and Q.No. 2 are **COMPULSORY**. Write **ANY SEVEN** questions out of remaining **Eight** questions.
- 2) Figures to the **RIGHT** indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

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- Q.1** Describe the life cycle, pathogenesis and laboratory diagnosis of Plasmodium falciparum. (15)
- Q.2** Classify Hypersensitivity reactions. Describe Anaphylaxis in detail. (15)
- Q.3** Enumerate intestinal protozoan parasites. Describe the morphology, life cycle and laboratory diagnosis of Entamoeba histolytica. (10)
- Q.4** Define autoimmunity. Describe the various mechanisms of autoimmunity with relevant examples. (10)
- Q.5** Enumerate Cestodes. Describe the life cycle, pathogenicity and laboratory diagnosis of Taenia solium. (10)
- Q.6** Enumerate antigen antibody reactions. Describe immunofluorescence reaction with its applications. (10)
- Q.7** Describe the methods of cultivation used for diagnosis of parasitic infections. (10)
- Q.8** Describe the cell mediated immune response and methods for its detection. (10)
- Q.9** Classify nematodes. Describe the life cycle, pathogenicity and laboratory diagnosis of Dracunculus medinensis. (10)
- Q.10** Describe the determinants of antigenicity and add a note on Superantigens. (10)

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