

BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA
M. Sc. (MEDICAL MICROBIOLOGY): Winter-2022
SUBJECT : PAPER – IV
(PARASITOLOGY & IMMUNOLOGY)

Day : Friday

Date : 23-12-2022

Time : 1:30 P.M. TO 4:30 P.M.

Max. Marks : 100

WI-795-2022

N. B. :

- 1) All questions are **COMPULSORY**.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat and labelled diagrams **WHEREVER** necessary.

Q. 1 Classify intestinal Nematodes. Describe the life cycle, pathogenicity and laboratory diagnosis of *Ascaris lumbricoides*. (15)

Q. 2 Classify Hypersensitivity reactions and describe in detail Type – IV hypersensitivity reaction. (15)

Q. 3 Write briefly **ANY SEVEN** of the following: (70)

- a) Describe the mechanism of action of superantigens. List organisms and toxins capable of acting as superantigens.
- b) Describe the life cycle of *Dracunculus medinensis*.
- c) Describe the mechanism of innate immunity.
- d) Enumerate parasites causing intestinal infections. Describe in detail laboratory diagnosis of *Entamoeba histolytica*.
- e) Describe the schedule and the Vaccines of the universal programme of immunization.
- f) Describe stool concentration methods in detail.
- g) Describe complement system.
- h) Enumerate Cestodes. Describe pathogenicity and life cycle of *Taenia solium*.

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