

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

Day : Friday
Date : 8/7/2022

S-795-2022

Time : 01:30 PM-04:30 PM
Max. Marks : 100

N. B. :

- 1) All questions are **COMPULSORY**.
 - 2) Figures to the right indicate **FULL** marks.
 - 3) Draw neat and labelled diagrams **WHEREVER** necessary.
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Q. 1 Classify intestinal Nematodes. Describe the life cycle, pathogenicity and laboratory diagnosis of *Ancylostoma duodenale*. **(15)**

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

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

- a) Describe pathogenicity and life cycle of *Giardia lamblia*.
- b) Enumerate tissue nematodes. Describe the life cycle, pathogenicity and laboratory diagnosis of *Brugia malayi*.
- c) Describe the principle of hybridoma technique for production of monoclonal antibodies. Add a note on applications of monoclonal antibodies.
- d) Enumerate parasites causing malaria. Describe in detail methods for laboratory diagnosis of malaria.
- e) Describe the principles of autoimmunity.
- f) Describe pathogenesis and laboratory diagnosis of kala azar.
- g) Describe complement system.
- h) Enumerate Trematodes. Describe pathogenicity and life cycle of *Schistosoma haematobium*.

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