

**BHARATI VIDYAPEETH (DEEMED TO BE UNIVERSITY), PUNE, INDIA**  
**M. Sc. (MEDICAL MICROBIOLOGY): Winter-2022**  
**SUBJECT : PAPER – III**  
**(VIROLOGY & MYCOLOGY)**

Day : Wednesday  
Date : 21-12-2022

Time : 1:30 P.M.-TO 4:30 P.M.  
Max. Marks : 100

W-794-2022

**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** Describe laboratory methods for diagnosis of viral infections. **(15)**

**Q. 2** Classify Dermatophytes. Write in detail the laboratory diagnosis of Dermatophytosis. **(15)**

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

- a) Describe the pathogenicity and laboratory diagnosis of Hepatitis B infection.
- b) Give an account of the vaccines against COVID-19.
- c) Describe the strategies used for diagnosis of HIV infection. Add a note on Western Blot for confirmation of HIV infection.
- d) Discuss pathogenicity of Cytomegalovirus.
- e) Write in details about various type of Rabies vaccine.
- f) Describe the structure of influenza virus. Add a note on antigenic shift and drift.
- g) Describe the pathogenicity and laboratory diagnosis of cryptococcal meningitis.
- h) Describe pathogenesis and laboratory diagnosis of subcutaneous fungal infection.

\* \* \* \* \*