

**FELLOWSHIP IN CLINICAL MICROBIOLOGY: *Winter 2021***  
**SUBJECT : PAPER – I : GENERAL MICROBIOLOGY, SYSTEMIC BACTERIOLOGY,  
MYCOLOGY, VIROLOGY AND PARASITOLOGY**

**Day** : Monday  
**Date** : 25-10-2021

**Time** : 10:00 AM-01:00 PM  
**Max. Marks** : 100

**W-20528-2021**

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the **RIGHT** indicate **FULL** marks.
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- Q.1** Write in detail about ETO and plasma sterilizer. (10)
- Q.2** Discuss the role of automation in a diagnostic microbiology laboratory. (10)
- Q.3** Discuss the etiology, pathogenesis and laboratory diagnosis of Infective endocarditis. (10)
- Q.4** Write about the antigenic structure, antigenic heterogeneity and laboratory diagnosis of gonococcal urethritis. Add a note on penicillin resistant *Neisseria gonorrhoea*. (10)
- Q.5** Write about pathogenesis, clinical features and laboratory diagnosis of COVID 19. Add a note on its prophylaxis. (10)
- Q.6** Describe the resistance factors, pathogenesis, clinical manifestations and laboratory diagnosis of *Entamoeba histolytica*. (10)
- Q.7** Is non-albicans candida a bigger threat than candida albicans? Discuss. (10)
- Q.8** What is MRSA? What are the ways of detecting an MRSA? What further advise would you give a patient who has grown an MRSA? (10)
- Q.9** Describe fungal sensitivity testing. (10)
- Q.10** Enumerate viral hemorrhagic fivers. Write about the pathogenesis, laboratory diagnosis and management of Ebola virus. (10)

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