

[LS 120]

NOVEMBER 2020  
(OCTOBER 2020 SESSION)

Sub. Code: 2017

**M.D. DEGREE EXAMINATION**

**BRANCH IV – MICROBIOLOGY**

**PAPER IV – MYCOLOGY AND APPLIED MICROBIOLOGY AND  
RECENT ADVANCES**

*Q.P. Code: 202017*

**Time: Three Hours**

**Maximum: 100 Marks**

**I. Essay:**

**(2 x 15 = 30)**

1. List out the Dimorphic fungi. Describe in detail the morphology, pathogenesis, clinical features and laboratory diagnosis of *Histoplasma capsulatum*.
2. Define PUO. Discuss in detail the etiology and laboratory approach in the diagnosis of Pyrexia of unknown origin.

**II. Short notes:**

**(10 x 5 = 50)**

1. *Candida auris*.
2. NTEP.
3. *Pseudallescheria boydii*.
4. Azoles as antifungal agents.
5. Hospital acquired infections.
6. *Geotrichum*.
7. Mycotoxins.
8. RT-PCR for SARS-COV 2.
9. MALDI-TOF.
10. Personal protective equipment.

**III. Reasoning Out:**

**(4 x 5 = 20)**

1. Niger seed agar is used in isolation of *Cryptococcus neoformans*.
2. CSF samples should never be refrigerated.
3. Lungs are the primary site in many fungal infections.
4. Clean catch mid stream urine is the ideal sample in cases with UTI.

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