

M. D. (Microbiology) : SUMMER - 2019
PAPER - IV
SUBJECT : RECENT ADVANCES

Day : Saturday
Date : 08/06/2019

Time : 2.00 P.M. TO 5.00 P.M
Max. Marks : 100

S-2019-3828

N.B. :

- 1) Question **No. 1** and **No. 2** are **COMPULSORY**. Write **ANY SEVEN** out of the remaining **EIGHT** questions.
- 2) Figures to the right indicate **FULL** marks.
- 3) Draw neat labelled diagrams **WHEREVER** necessary.

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|-------------|--|-------------|
| Q.1 | Discuss Biofilms and their role in drug resistance. | (15) |
| Q.2 | Describe various phenotypic methods for detection of antibiotic resistance. | (15) |
| Q.3 | Discuss evasion of host defence by parasites. | (10) |
| Q.4 | Discuss 'Point of Care" testing in Microbiology. | (10) |
| Q.5 | Describe role of Non-fermenters in hospital acquired infections. | (10) |
| Q.6 | Discuss quality control practices in Microbiology Laboratory. | (10) |
| Q.7 | Discuss biosafety in microbiology Laboratory. | (10) |
| Q.8 | Describe the epidemiology, pathogenesis and lab diagnosis of <i>Penicillium marnefi</i> . | (10) |
| Q.9 | Describe role of automation in diagnostic microbiology. | (10) |
| Q.10 | What are Extended spectrum beta Lactamases (ESBL)? Describe methods used to detect ESBL in a bacteria. | (10) |

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