MICROBIOLOGY PAPER-II

Time: 3 hours MICRO/J/20/18/II

Max. Marks:100

<u>Important Instructions:</u>

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

Write short notes on:

What are the major virulence factors of Streptococcus pyogenes? Describe 5+5 their role in pathogenesis. 2. Define carrier state in typhoid fever. Describe laboratory diagnosis of typhoid 2+4+4 carriers. Discuss antimicrobial resistance in typhoid fever. 3. Describe the source of infection and transmission of Leptospirosis. Discuss 3+7 its laboratory diagnosis. 4. Enumerate bacterial causes of food poisoning. Write briefly about the 3+2+5specimen collection and diagnosis of food poisoning. 5. Define XDR tuberculosis. Discuss the diagnosis of XDR tuberculosis using 4+6 newer technology. 6. Non-culture methods for diagnosis of sepsis. 10 7. Pathogenesis, clinical presentation, laboratory diagnosis and treatment of 10 Histoplasmosis. 8. Describe general character of Dematiaceous fungi. Discuss infection 3+3+4caused by any one of these along with its identification methods. 9. 10 Echinocandins and their role in management of candida biofilm. 10. What is the significance of non-albicans candida? How are they diagnosed 5+5 in the laboratory?
