

M- 009M

**M.B.B.S. 2<sup>nd</sup> PROFESSIONAL EXAMINATION, 2018**
**MICROBIOLOGY**
**PAPER I**
**Time Allowed: Three Hours**
**Maximum Marks- 40 - 20**

**Note:-** Attempt all questions in serial order. All parts of a question should be answered together. Figures in parenthesis indicate marks allotted to a question.

- Q1. Describe principles and methods of sterilization. Provide the preferred methods for sterilizing medical equipment, devices, linens, liquid media and injectable. (5) - 3
- Q2. Name the viruses causing acute encephalitis syndrome (AES). How will you approach the laboratory diagnosis of a case of AES? (5) - 3
- Q3. Name any five Gram-negative bacteria with full genus and species names and the disease(s) they commonly cause. (5) - 2
- Q4. What are soil-transmitted helminthes? Name any 3 of them. Draw diagrams of their life cycle. (5) - 3
- Q5. How a case of pulmonary tuberculosis is diagnosed and managed? Provide current guidelines as per national TB control program. Draw a flow chart will be encouraged. (5) - 3
- Q6. What is a transport medium? Describe its characteristic features and name any 3 commonly used transport media. Write the uses of those media as well. (5) - 3
- Q7. What are the fungal causes of septicemia? How will you make a diagnosis of fungal septicemia? (5) - 3
- Q8. What is Polymerase Chain Reaction? Write its principle and at least 5 applications in medicine. Diagrammatic presentation will be encouraged. (5) - 3