

# **2010 Scheme**

**Q.P. Code: 205001**

**Reg. No.: .....**

## **Second Professional MBBS Degree Supplementary Examinations August 2024**

### **Microbiology - Paper I**

**Time: 2 Hours**

**Total Marks: 40**

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw table/diagrams/flow charts wherever necessary*

**Essay: (10)**

1. A five year old boy was brought to emergency department with history of fever, headache, vomiting and altered sensorium for last 48 hours. On examination, neck stiffness was present. Examination of CSF showed neutrophilic predominance
  - a) What is the most probable clinical diagnosis
  - b) Enumerate the etiological agents causing this condition
  - c) Describe the laboratory diagnosis
  - d) Write about the vaccine prophylaxis of this condition according to the etiological agents

(1+2+4+3)

**Short essay: (2x5=10)**

2. Describe the principle and applications of autoclave. Add a note on sterilization controls used
3. Classify Hyper sensitivity reactions. Write in detail about type IV Hypersensitivity

**Short notes: (10x2=20)**

4. Enumerate FOUR bacteria causing urinary tract infection
5. Selective media with TWO examples.
6. HLA antigens
7. Weil's disease
8. Pathogenesis of cholera
9. Anaerobic culture methods
10. Monoclonal antibodies and its TWO applications
11. Epsilometer test
12. Methicillin Resistant Staphylococcus Aureus (MRSA)
13. Inspissation

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