

Time Allowed : 15 Minutes

Maximum Marks : 10

Signature of Deputy Supdt. \_\_\_\_\_

Note : Use this paper to write the answers to the objective questions. No mark will be awarded for cutting, over-writing or using a pencil. This paper must be tagged with the answer-book.

1. Four possible answers to each statement are given below. Tick (✓) mark the correct answer : 10

(i) Following one is true for prokaryotes :

( DNA with a nuclear membrane. Mitotic division.

Cell wall contain peptidoglycan. None of these. )

(ii) Following statement is true for cleaning the microscope objective :

( Clean the objective with ethanol. Dip the objective in xylene.

Use cotton wool to clean objective. Use lense paper to clean objective. )

(iii) In hot air oven sterilization of glass ware is done at :

( 115 °C for 30 minutes. 160 °C for 1 hour.

120 °C for 1 hour. 120 °C for 15 minutes. )

(iv) Which one of the following reagent is not used during Z.N staining :

( Carbol fuchsin. 25% sulphuric acid. Crystal violet. Methylene blue. )

(v) Which one is not identification culture media :

( Mac Conkey agar. Nutrient agar. TSI. Urea. )

(vi) Staph is differentiated with streptococcus by following test :

( Catalase test. Co-agulase test. DNA test. Bile solubility test. )

(vii) Enteric fever is caused by

( Shigella dysenterae. Salmonella typhi. Esch. Coli. Vibrio cholera. )

(viii) Sensitivity test for Mycobacteria should be done :

( On Mueller Hinton agar. In ordinary laboratory.

In reference laboratory. On nutrient agar. )

(ix) Hepatitis C virus transmitted by :

( Orofacal route. Parenteral route. Both. None of these. )

(x) All the following statement for Rabies virus is correct except one :

( Cause acute infection of brain. Zoonotic. Non lethal.

Diagnose by Negri bodies. )

Roll No \_\_\_\_\_ ( To be filled in by the candidate)

(Academic Sessions 2006-2008 & 2007-2009)

MICROBIOLOGY 208-( FIRST YEAR )

PAPER – I ( Essay Type )

Time Allowed : 1.45 hours

Maximum Marks : 40

Note : All questions are to be attempted on the answer book.

### SECTION – I

2. Write any TWELVE (12) short answers of the following questions :

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- (i) What do you mean by non lactose fermenting organism?
- (ii) What is the disc diffusion technique?
- (iii) What is the principle of gram staining?
- (iv) What is oxidase test?
- (v) What is selective media?
- (vi) What is incineration?
- (vii) What is bacteriemia?
- (viii) What do you understand by bacteriostatic agent?
- (ix) What is log phase?
- (x) What is commensals?
- (xi) What is autoclave?
- (xii) What is exotoxin.
- (xiii) What media/you use for T.B. culture?
- (xiv) What is the route of transmission for salmonella?
- (xv) How does the virus release from the cell after replication?
- (xvi) What is virion?
- (xvii) What is prion?
- (xviii) What is the route of transmission for polio virus?

### SECTION – II

Note : Attempt any TWO questions.

3. Name the methods of sterilization. 8
4. How will you diagnose a case of Staph aureus in laboratory. 8
5. What are the common hazards in virology laboratory? What are the good Biosafety Practices. 8