

Write Serial No. of your answer book _____

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) Which one of the following is lactose fermenting bacteria :

(Escherichia coli. Shigella boydii. Proteus vulgaris. Salmonella paratyphi.)

(ii) Staphylococcus aureus causes all of the following except :

(Food poisoning. Boils. Wound infection. Typhoid fever.)

(iii) PH indicator in the carbohydrate fermenting media is :

(Phenol red. Bromothymol blue. Neutral red. Andrade's indicator.)

(iv) Gas gangrene is caused by which one of the following bacteria :

(Clostridium botulinum. Clostridium tetanus.

Clostridium perfringes. Bacillus anthracis.)

(v) Selective medium for Vibrio Cholera is :

(Mac Conkey's agar. Nutrient agar. Blood agar.

Thiosulphate – citrate bile salt sucrose [TCBS] agar.)

(vi) Pseudomonas aeruginosa is : (Micro acrophilic organism. Obligate anaerobe.

Facultative aerobe. Obligate aerobe.)

(vii) Plague caused by Yersinia pestis is transmitted by :

(Dog bite. Flea bite. Sexual contact. Oro-faecal route.)

(viii) Defective virus lacks : (Protein coat. Functional genes for replication.

Protein coat and functional genes for replication. None of these.)

(ix) Poliomyelitis viruses are : (RNA virus. Non-enveloped virus.

RNA virus and non-enveloped virus. None of these)

(x) Non-enveloped virus is released by : (Budding process. Lysis of cell.

Budding process and lysis of cell. None of these.)

Roll No _____ (To be filled in by the candidate)

MICROBIOLOGY- I 207-(FIRST YEAR)

Time Allowed : 1.45 hours

PAPER – B (Essay Type)
to be

Maximum Marks : 40

Note : All questions are attempted on the answer book.

SECTION – I

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

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- (i) Define disinfection.
- (ii) What do you understand by the term bactericidal agent?
- (iii) Gram's staining method is a simple staining method or differential staining method.
- (iv) Name one transport medium for enterobacteria and one transport medium for Neisseria gonorrhoea.
- (v) Which specimens will you collect for culture to identify Neisseria meningitidis.
- (vi) When should widal test be performed for diagnosis of typhoid fever.
- (vii) Name two gram positive spore forming anaerobes.
- (viii) Which method is recommended for diagnosis of pulmonary tuberculosis by Dot's method.
- (ix) Name the reagents used in Ziehl-Neelson the staining method.
- (x) What are the main types of culture media?
- (xi) Name two indole positive bacteria.
- (xii) What is Septicaemia?
- (xiii) What do you understand by the term naked virus?
- (xiv) What is the first step in replication of viruses?
- (xv) What is Hepatitis B Virus?
- (xvi) What is cytopathic effect by viruses?
- (xvii) How is rabies virus transmitted?
- (xviii) What is continuous cell line?

SECTION – II

Note : Attempt any TWO questions.

3. What are the steps in replication of viruses?

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4. Describe Gram Staining Method in detail.

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5. Name the diseases caused by Salmonella. How will you diagnose typhoid fever?

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