

**Sample Paper**

**Subject: Microbiology**

**Paper II**

**Instructions**

All Questions in Section I are compulsory

Attempt any 12 out of 15 questions from Section II

Attempt any 8 out of 15 questions from Section III

**Section I**

- 1 Whooping cough is caused by \_\_\_\_\_
  - a Bacteria
  - b Virus
  - c Protozoa
  - d Fungi
  
- 2 Lemon air sampler works on the basis of \_\_\_\_\_
  - a Impaction
  - b Impingement
  - c Centrifugation
  - d Filtration
  
- 3 Who introduced carbolic disinfectant spray?
  - a Lister
  - b Koch
  - c Pasteur
  - d Gabor
  
- 4 Which of the following is subterranean water?
  - a Atmospheric water
  - b Surface water
  - c Groundwater
  - d Rainwater
  
- 5 Ammonification is a part of \_\_\_\_\_ cycle.
  - a Carbon
  - b Nitrogen
  - c Phosphorus
  - d Sulphur

**Section II**

- 6 Which is a potential biological warfare agent
  - a Endotoxin
  - b Botulinum A toxin
  - c LPS
  - d Pollen grains

7 Which spray may increase the levels and specificity of the immune response?

- a Carbon spray
- b Nasal spray
- c Disinfectant spray
- d Lysol spray

8 The bottom habitat is occupied by a group of organisms called the \_\_\_\_\_

- a Benthos
- b Phytoplankton
- c Zooplankton
- d Plankton

9 The indicator used in COD method is \_\_\_\_\_

- a FAS
- b Ferroin
- c Thiosulfate
- d Starch

The sampling plan in which the area is broken into regular subunits for collection of sample is  
10 called \_\_\_\_\_

- a Random
- b Transect
- c Two-stage
- d Systematic grid

### Section III

11 Which organism belong to the serological group of Lancefield D?

- a Enterococci
- b Escherichia sp.
- c Klebsiella sp.
- d Faecal streptococci

12 What are Point sources can be defined on the basis of the type of launching phenomenon

- a Instantaneous and continuous point sources
- b Equilibrium and discontinuous source
- c Instantaneous and discontinuous source
- d Equilibrium and instantaneous source

13 The BOD test is based on the oxidation of \_\_\_\_\_

- a Silver Sulfate
- b Dichromate
- c Mercuric Sulphate
- d Manganese Sulfate

14 The \_\_\_\_\_ particles have the greatest water holding capacity.

- a Sand
- b Silt
- c Clay
- d Loam

15 *Thiobacillus* is an example of bacteria involved in \_\_\_\_\_.

- a Ammonification
- b Nitrosification
- c Nitrification
- d Denitrification