

Seat No.

QP-2301

Total No. of Pages : 2

OCT_NOV_2024 WINTER EXAMINATION

11670 Bachelor of Science

Sub. Name: Microbiology Paper II (Microb II)

Sub. Code: 106817

Day and Date: DECEMBER ,12-12-2024

Time: 02.30 PM To 04:00 PM

Total Marks: 40

- Instructions:
1. All questions are compulsory
 2. Draw neat labelled diagrams wherever necessary
 3. Figures to the right indicate full marks

Q1) Rewrite the following sentence by selecting the correct answers from the given [8]
alternatives.

- i. In ZnCF stain.....is used.
A. Acid-fast stain
B. Acidic fuchsin
C. Safranin
D. Crystal violet
- ii. Polyphosphate is present in..... granules.
A. Volutin
B. Acid
C. Basic
D. Neutral
- iii. The lens present near to the observer's eye is called as.....
A. Objective lens
B. Ocular
C. Condenser
D. Immersion lens
- iv. The refractive index of air is -----
A. 1.8
B. 0.1
C. 1
D. 1.5
- v. The general pressure at which the autoclave is operated is.....
A. 5 Psi
B. 20 Psi

[1]

P.T.O.



- C. 15 Psi
- D. 40 Psi

vi. -----of the following is suitable for use on tissues for microbial control to prevent infection

- A. Disinfectant
- B. Antiseptic
- C. Sterilization
- D. Water

vii. -----of the following microbial control methods does not actually kill microbes or inhibit their growth but instead removes them physically from samples.

- A. Filtration
- B. Desiccation
- C. Lyophilization
- D. Non ionizing radiation

viii. Tincture of iodine prepared in

- A. Water
- B. Water, ethanol
- C. Alcohol
- D. Butanol

Q2) Attempt any two of the following.

[16]

- a) Describe in detail sterilization by heavy metals.
- b) Describe in detail about Gram staining.
- c) Describe in detail about sterilization by halogen compound.

Q3) Write short notes (any four)

[16]

- a) Gaseous agent - Ethylene oxide
- b) Simple staining.
- c) Difference between the light and electron microscope
- d) Hot air oven
- e) Objective lenses
- f) Mechanism of capsule staining.

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