

**BACHELOR OF SCIENCE (CARDIOVASCULAR TECHNOLOGY) (CBCS - 2020 COURSE)**

**B. Sc. (Cardiovascular Technology) Sem - II :SUMMER- 2022**

**SUBJECT : MICROBIOLOGY**

Day : Wednesday

Date : 20-07-2022

**S-23332-2022**

Time : 10:00 AM-12:00 PM

Max. Marks : **30**

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**N.B.**

- 1) There are **THREE** sections as  
Section –A – Objective Type questions      10 marks  
Section –B – Long Answer questions      20 marks  
Section –C – Short Answer questions      10 marks
  - 2) Section **B** has four long answer questions and **ANY TWO** questions have to be Answered.
  - 3) Section **C** has six short answer questions and **ANY FIVE** questions have to be Answered.
  - 4) Section B and C should be written in same answer book.
  - 5) Draw neat diagrams wherever necessary.
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**SECTION – B**

**Long answer questions (attempt any two) (20)**

- 1 Classify culture media used in microbiology giving examples of each and their application.
- 2 Enumerate bacteria causing UTI. Describe laboratory diagnosis of a case of UTI.
- 3 Describe morphology and life cycle of Plasmodium vivax. Describe laboratory diagnosis of malaria.
- 4 Enumerate fungi causing opportunistic infections. Describe laboratory diagnosis of cryptococcosis.

**SECTION – C**

**Short answer questions (attempt any five) (10)**

- 1 Catagories of bio-medical waste disposal
- 2 Widal test
- 3 Innate immunity
- 4 Routes of transmission of HIV
- 5 Lab diagnosis of amoebic dysentery
- 6 Lab. diagnosis of dengue fever

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- 1) There are **THREE** sections as  
Section –A – Objective Type questions      10 marks  
Section –B – Long Answer questions      20 marks  
Section –C – Short Answer questions      10 marks
- 2) Section **A** is given **SEPARATE** sheet and has to be answered on same sheet. This sheet be completed within the **first 20 minutes** of starting of the examination. The sheet with section A only will be collected by Supervisor.
- 3) You have to make ✓ such kind of mark in the box of the appropriate answers.
- 4) There is no negative marking.

Seat No. : \_\_\_\_\_

**SECTION - A**

1 All of the following are Gram positive organism EXCEPT

- Escherichia coli
- Staphylococci
- Streptococci
- C. diphtheriae

2 MacConkeys agar is

- Differential medium
- Enriched medium
- Enrichment medium
- Sugar medium

3 All of the following are dermatophytes EXCEPT

- Trichophyton
- Microsporum
- Epidermophyton
- Rhizopus

4 Common name for Ascaris lumbricoides is

- Hookworm
- Pinworm
- Threadworm
- Roundworm

5 During the window period of patient with HIV infection, best diagnostic test is

- ELISA
- Western blot
- Rapid test
- RT-PCR

6 L.J. medium is sterilized by

- Autoclave
- Hot air oven
- Inspissation
- Pasteurisation

**P.T.O.**

7 Concentration of Sodium hypochlorite used in blood spill management is

- 0.5%
- 1%
- 2%
- 10%

8 Vaccine given at birth is

- BCG
- Hepatitis A
- DPT
- MMR

9 Best sample for diagnosis of enteric fever in first week of infection is

- Urine
- Stool
- Blood
- CSF

10 Organ of locomotion in bacteria is

- Fimbriae
- Flagella
- Capsule
- Spore

Total Marks obtained : \_\_\_\_\_

Signature of Invigilator

Signature of Examiner

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