

BACHELOR OF SCIENCE (LABORATORY SCIENCES) (CBCS - 2019 COURSE)
B.Sc. (Lab Sci) Sem-III : WINTER :- 2021
SUBJECT: BACTERIOLOGY-I & IMMUNOLOGY

Day : Monday
Date 14-02-2022

W-22558-2021

Time : 10:00 AM-12:00 PM
Max. Marks: 60

N.B.:

- 1) There are **THREE** sections as
Section – A = Objective Type questions - 20 marks.
Section – B = Long answer questions - 20 marks.
Section – C = Short answer questions - 20 marks.
- 2) Section A is given in **SEPARATE** sheet and has to be answered on same sheet.
This sheet should be completed with the first 20 minutes of starting of the examination.
This sheet with Section A only will be collected by Supervisor.
- 3) Section B has four long questions and **ANY TWO** questions have to be answered.
- 4) Section C has six short questions and **ANY FOUR** questions have to be answered.
- 5) You have to make \surd such kind of mark in the box of the appropriate answers.

Seat No.: _____

SECTION-A

M.C.Q's

- Q.1** Which part of the bacteria is mostly antigenic? **(20)**
- a) Protein
- b) Carbohydrate
- c) Lipid
- d) Nucleic acid
- Q.2** The test used to differentiate between Staph aureus and Staph epidermidis is
- a) Coagulase
- b) Catalase
- c) Oxidase
- d) Urease
- Q.3** All of the following are exotoxins **Except**
- a) Botulinum
- b) Anthrax
- c) Diphtheria
- d) Lipid A Lipopolysaccharide
- Q.4** Nagler reaction is example of
- a) Precipitation
- b) CFT
- c) Agglutination
- d) Neutralisation

P.T.O.

Q.5 Which is a post streptococcal sequelae

- a) Acute rheumatic fever
- b) Cellulitis
- c) Pharyngitis
- d) Impetigo

Q.6 Gram stain morphology of *C. tetani* is

- a) Tennis racket appearance
- b) Bamboo stick appearance
- c) Drum stick appearance
- d) Spectacle glass appearance

Q.7 Principle toxin responsible for gas gangrene is

- a) Alpha
- b) Beta
- c) Delta
- d) Theta

Q.8 Reagent used for Indole test is

- a) Methyl red
- b) Kovacs
- c) H_2O_2
- d) α naphthol

Q.9 All of the following are vector borne diseases EXCEPT.

- a) Malaria
- b) Filariasis
- c) Corona
- d) Chaga's disease

Q.10 The first antibody to be produced following an infection is

- a) IgA
- b) IgM
- c) IgG
- d) IgD

Total Marks Obtained: _____

Signature of Invigilator

Signature of Examiner

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 - 4) Answer to both the sections should be written in **SAME** book.
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SECTION-B

Long Answer (**Attempt ANY TWO**) **(20)**

- 1) Describe various methods of anaerobiosis.
- 2) Describe laboratory diagnosis of diphtheria.
- 3) Classify streptococci. Describe morphology cultural characteristic and pathogenicity of Streptococcus pyogenes.
- 4) Classify hypersensitivity. Add a note on Anaphylaxis.

SECTION-C

Short Answer (**Attempt ANY FOUR**) **(20)**

- 1) Coagulase test
- 2) Precipitation test
- 3) Lab diagnosis of tetanus
- 4) Satellitism
- 5) Lab diagnosis of meningococcal meningitis
- 6) Streptococcus pneumoniae

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