

BACHELOR OF SCIENCE (ANAESTHESIA & OT TECHNOLOGY) (CBCS - 2020
COURSE)

B. Sc. (Anaesthesia & OT Technology) Sem - II : WINTER- 2022
SUBJECT : MICROBIOLOGY

Day : Tuesday

Time : 10:00 AM-01:00 PM

Date : 10/1/2023

W-23397-2022

Max. Marks : 10

N.B.:

- 1) There are three sections as
Section- A = Multiple choice questions- 10 marks.
Section- B = Long Answer questions- 14 marks.
Section- C = Short Answer questions- 16 marks.
- 2) Section B has Three long questions and **ANY TWO** questions have to be answered.
- 3) Section C has Six short questions and **ANY FOUR** questions have to be answered.
- 4) 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.
- 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

- 1 Which of the following organism is acid fast in nature?
 - a) E.coli
 - b) Mycobacterium tuberculosis
 - c) Klebsiella
 - d) Candida
- 2 Which of the following serves as a growth media for fungus?
 - a) Sabourauds dextrose agar
 - b) Robertsons cooked meat media
 - c) L J media
 - d) MacConkey media
- 3 Leprosy is caused by?
 - a) M leprae
 - b) M tuberculosis
 - c) Mycoplasma
 - d) Staphylococcus
- 4 Which of the following is method of dry heat sterilization?
 - a) Autoclave
 - b) Seitz filter
 - c) Hot air oven
 - d) Gamma radiation

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- 5 Which of the following is a Gram negative cocci?
- a) Staphylococcus
 - b) Bacillus
 - c) Neisseria
 - d) Salmonella
- 6 Organ of locomotion in a bacteria is?
- a) Capsule
 - b) Flagella
 - c) Pili
 - d) Mesosome
- 7 Which of the following is a selective media?
- a) Blood agar
 - b) Nutrient agar
 - c) Chocolate agar
 - d) Wilson Blair media
- 8 Which of the following is the causative agent of malaria?
- a) Leishmania
 - b) Plasmodium
 - c) Trypanosoma
 - d) None of the above
- 9 Causative agent of Syphilis is?
- a) Treponema pallidum
 - b) Mycoplasma
 - c) Neisseria gonorrhoea
 - d) Listeria
- 10 Which among the following is the most appropriate sample for diagnosis of pulmonary tuberculosis?
- a) Saliva
 - b) Sputum
 - c) Throat swab
 - d) Blood

Total marks obtained: _____

Signature of Invigilator: _____

Signature of Examiner: _____

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Max. Marks : 30

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 - 2) Section B has Three long questions and **ANY TWO** questions have to be answered.
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 - 4) Answer to both the sections should be written in **SAME** answer book.
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SECTION-B

Long answer question (**Attempt ANY TWO**): **(14)**

- 1) Define sterilization. Write in detail about the working of an autoclave.
- 2) Discuss in detail about morphology and the laboratory diagnosis of Mycobacterium tuberculosis.
- 3) Discuss in detail about the pathogenesis and laboratory diagnosis of Enteric fever.

SECTION-C

Short answer question (**Attempt ANY FOUR**): **(16)**

- 1) Write in brief about the key features of "Standard precautions".
- 2) Discuss in short about Koch's postulates.
- 3) Define agglutination. Give examples of different types of agglutination reactions.
- 4) Write in brief about the laboratory diagnosis of a fungal infection.
- 5) Discuss in brief about the laboratory diagnosis of urinary tract infection.
- 6) Draw a well labeled diagram of a bacterial cell.

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