

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2023
(Fourth Semester)

Branch – ZOOLOGY

MICROBIOLOGY

Time: Three Hours

Maximum: 50 Marks

SECTION-A (5 Marks)

Answer ALL questions

ALL questions carry EQUAL marks

(5 x 1 = 5)

- 1 Who is a father of microbiology?

(i) Antani Van Leeuwenhoek	(ii) Edward Jenner
(iii) Louis pasteur	(iv) Robert Koch.

- 2 The rod shaped bacteria are called.

(i) Coccus	(ii) Spirillum
(iii) Bacilli	(iv) Vibrio.

- 3 Autoclave is an electrical apparatus used for.

(i) Incubation	(ii) Inoculation
(iii) Sterilization	(iv) Culture medium

- 4 _____ are neither prokaryotes nor eukaryotes.

(i) Bacteria	(ii) Virus
(iii) Fungi	(iv) Protozoa.

- 5 Diptheria is caused by gram positive Nocardioform bacteria, _____.

(i) <i>Vobrio cholerae</i>	(ii) <i>Corynybactreium diphtheriae</i>
(iii) <i>shigellae dysenteriae</i>	(iv) <i>Salmonella typhi</i> .

SECTION - B (15 Marks)

Answer ALL Questions

ALL Questions Carry EQUAL Marks

(5 x 3 = 15)

- 6 (a) Analyze the contribution of Edward Jenner to microbiology.
OR
(b) Briefly explain the structure of bacterial cell wall.

- 7 (a) Summarize the significance of *Salmonella typhi*.
OR
(b) Sketch the Binary fission of Bacteria.

- 8 (a) How can you sterilize the glassware by Dry heat method?
OR
(b) Describe the inoculation and Incubation in Bacterial culture method.

Cont...

- 9 (a) Describe the Icosahedral shape of Virus.
OR
(b) Summarize about the interferon.
- 10 (a) Describe the causative organism and symptoms of hepatitis.
OR
(b) Explain the causative organism, mode of transmission and symptoms of Diphtheria.

SECTION -C (30 Marks)

Answer ALL questions

ALL questions carry EQUAL Marks (5 x 6 = 30)

- 11 (a) Analyze the contribution of Robert Koch and Louis Pasteur to microbiology.
OR
(b) Discuss about the general structure of Bacteria.
- 12 (a) Write about the significance of *Mycobacterium* and *Vibrio cholera*.
OR
(b) Summarize the Batch culture and Continuous culture of Bacteria.
- 13 (a) Classify the types of culture medium.
OR
(b) Elucidate the pure culture method of Bacteria.
- 14 (a) Point out the general characters of Viruses.
OR
(b) Distinguish the lytic cycle and lysogenic cycle.
- 15 (a) Discuss about the causative organism, mode of transmission, symptoms and control measures of Measles.
OR
(b) Elucidate the causative organism, mode of transmission, symptoms and control measures of chicken box.

Z-Z-Z

END