Maximum: 75 Marks

PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2022

(Fourth Semester)

Branch-ZOOLOGY

MICROBIOLOGY

Time: Three Hours

| | Answer | N-A (10 Marks) ALL questions arry EQUAL marks | $(10 \times 1 = 10)$ | |
|----|--|---|---|--|
| 1 | Name the scientist who discovered Penic (i) Huxley (iii)Edward Jenner | cillin. (ii)Alexander Flem (iv) De Vries | ing | |
| 2 | Who is the Father of Microbiology? (i) Spencer (iii) Huxley | (ii) Leeuwenhock (iv) lamark | | |
| 3. | Which device is used for continuo (i) Turbidostat (iii) autoclave | nuous culture of bacterial cells? . (ii) cooker (iv) oven | | |
| 4 | Choose one of the endospore prod (i) Mucor (iii) Bacillus | ucing bacteria. (ii) Blue green algae (iv) chloroplast | 9 | |
| 5 | What is Broth medium?. (i) solid medium (iii) semi solid medium | (ii) liquid medium (iv) enriched mediu | m - 1919 | |
| 6 | Which one of the following is good sensitive materials? (i) ionizing radiation (iii) aldehydes | l for sterilizing agent pl (ii) non ionizing rad (iv) HCL | | |
| 7 | Which bacteriophage exhibit Lyson (i) alpha series (iii) lamda series | genic cycle? (ii) T series (iv) gamma series | | |
| 8 | Name the genetic materials of animalian (i) RNA (iii) DNA | nimal virus. (ii) Cistron (iv) plasmid | | |
| 9 | Name the disease caused by Vibrio (i) Cholerae (iii) syphillis | Vibrio cholerae. (ii) mumps (iv) typhoid | | |
| 10 | Choose the disease related with liv (i) Common cold (iii) mumps | liver inflammation. (ii) polio (iv) viral hapatitis | | |

Cont...

SECTION - B

Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 7 = 35)

11 a. Comment on Louis Pasteur.

OR

- b. Outline the contribution of Edward Jenner.
- 12 a.Comment on batch culture.

OR

- b Explain the Binary fission of bacteria reproduction.
- 13 a, Comment on Enriched medium and Solid medium.

OR

- b. Summarise the Gram staining.
- 14 a. Describe the structure T4 bacteriophage.

OR

- b. Comment on Interferons.
- 15 a. Outline the symptoms and control measures of Diptheria.

OR

b. Narrate the causative agents and symptoms of Typhoid.

SECTION - C (30 Marks)

Answer any THREE Questions

ALL Questions Carry **EQUAL** Marks $(3 \times 10 = 30)$

- 16 Describe the structure of Bacteria with neat sketch.
- 17 Explain in detail about Bacterial growth curve.
- 18 Discuss in different methods of Pure culture.
- 19 Explain the lytic cycle of Bacteriophage.
- 20 Discuss the causative agent and symptoms of AIDS. How will you control it?

Z-Z-Z

END