PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 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	introduced vaccination for the prevention of small box through inoculation of cow box virus.				
	(i) Antani Van Leeuwenhoek (iii) Louis pasteur	(ii) (iv)	Edward Jenner Robert Koch.		
2	The E.coli lives in the of bacterium.				
-	(i) Skin	(ii)	Hair		
	(iii) Nail	(iv)	Colon.		
3	is the destruction and removal of living microorganism				
5	(i) Incubation	(ii)	Inoculation		
	(iii) Sterilization		Culture medium		
4	Which one of the following is an intermediate between living and non living things?				
	(i) Bacteria	(ii)	Virus		
	(iii) Fungi	(iv)	Protozoa.		
5	is the causative agent of typhoid fever in man.				
	(i) Vobrio cholerae	(ii)	Corynybactreium diphthe	eriae	
	(iii) shigellae dysenteriae	(iv)	Salmonella typhi.		
SECTION - B (15 Marks)					
	Answer ALL Questions ALL Questions Carry EQUAL Marks (5 x 3 = 15)				
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6	a) Analyze the contribution of Alexander Fleming in microbiology. OR				
	b) Briefly explain the types of flagellation in bacteria.				
7	a) Describe the significance of Clostridium.				
	OR				
	b) Narrate the fragmentation in bacterial reproduction.				
8	a) How can you sterilize the glassware by using moist heat sterilization? OR				
	b) Classify the culture medium bas	ed on	the consistency.		

9 a) Briefly explain the general characters of Viruses.

OR

- b) Describe the structure of T₄ bacteriophage.
- 10 a) Summarize the causative organism, symptoms and control measures of typhoid.

OR

b) Narrate the control measures of cholera.

SECTION -C (30 Marks)

Answer ALL questions
ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a) Highlights the major features of Bacteria.

OR

- b) Discuss about the various shapes of Bacteria.
- 12 a) Point out the significance of Streptococcus and Staphylococcus.

OR

- b) Examine the typical growth curve of Bacteria.
- 13 a) Summarize the preservation of pure culture.

OR

- b) How will you identify the bacteria by using gram staining Technique?
- 14 a) Examine the shapes of viruses.

OR

- b) Analyze the life cycle of phages.
- 15 a) Discuss about the causative organism, mode of transmission, symptoms and control measures of AIDS.

OR

b) Elucidate the causative organism, mode of transmission, symptoms and control measures of small box.

Z-Z-Z

END