PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(First Semester)

Branch-BOTANY

MICROBIOLOGY

Time:	Three Hours	<u> DIOEOGI</u>	Maximum: 75 Marks
	Answer A	<u>-A (10 Marks)</u> LL questions carry EQUAL marks	s $(10x1 = 10)$
1	Bacteria were, for the first time of (i) Anton Von leeuwonhoek (iii) W.H.Stanly	bserved by (ii) Robert (iv) Leuis Pasteur	
2	The genetic material in virus is (i) DNA only (iii) DNA,RNA and protein	(ii) RNA only (iv) DNA or RNA	
3	Muramic acid is present in the ce (i) Green algae (iii) Yeast	ll wall of (ii) Bacteria (iv) Rhizopus	
4	Peritrichous bacteria are those wh (i) Present at one end (iii) Present all over the body	(ii) Present at both	ends
5	The asexual reproduction in <i>Albu</i> (i) Oidio (iii) Chlamydospores	go occurs by means (ii) Conidia (iv) Budding	of
6	Yeast is used in the industrial production of (i) Butanol (ii) Citric acid (iii) Tetracycline (iv) Ethanol		
7	Tikka disease is caused due to the (i) Pseudomonas (iii) Cercospora	e infection by the specific (ii) <i>Xanthomonas</i> (iv) <i>Streptomyces</i>	ecies of
8	Which of the following take part (i) Alga-fungus (iii) Fungus-fungus	in symbiosis of licho (ii) Alga-alga (iv) Alga-gymnosp	
9	Food can be easily preserved at low temperature, because the low temperature (i) The food can easilydigested (ii) The food can be easily cooked (iii) The bacterial attack on food is minimized (iv) All the above		
10	Food poisoning is caused by the in (i) <i>Bacillus megatherium</i> (iii) <i>E.coli</i>	nfection of (ii) Salmonells typ (iv) Clostridium bo	

SECTION - B (35 Marks)

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

11 a Bring out the general characteristics of virus.

OR

- b Describe micro flora of water.
- 12 a Explain critically the nutritional requirements of micro organisms.

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- b How do you measure the bacterial growth?
- 13 a Describe the asexual reproduction in Yeast.

OR

- b Enumerate the economic important of fungi.
- 14 a Expound the casual organism and control measures of bacterial flight of paddy.

OR

- b Discuss the thallus structure of lichens.
- 15 a Classify the types of microbial food spoilage with suitable examples.

OR

b Solve the various methods of microbial control.

SECTION - C (30 Marks)

Answer any **THREE** Questions

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

- Summarize the structure and multiplication of T_4 phage.
- Highlight the ultra structure of bacterial cell.
- Outline the life cycle of *Albugo*.
- 19 Discuss the sexual reproduction in lichens.
- Analyse the methods of food preservation.

Z-Z-Z END