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PSG COLLEGE OF ARTS & SCIENCE

(AUTONOMOUS)

BSc DEGREE EXAMINATION DECEMBER 2019

(First Semester)

Branch - Microbiology

FUNDAMENTALS OF MICROBIOLOGY

Time:	Three Hours		Maximum: 75 Marks
	Answer	N-A (10 Marks) ALL questions s carry EQUAL marks	(10x1 = 10)
1	Germ Theory of Disease was gi (i) Pasteur (iii) Robert Koch	ven by —— (ii) Stanley Cohen (iv) Whittaker	
2	Diphtheria antitoxin was discove (i) Paul Ehrlich (iii) Elie Metchnicoff	(ii) Edward Jenner	
3	Polyphosphate granules, Cyanop hydroxyl butyrate granules are- prokaryotes. (i) osmoprotectants (iii) inclusion bodies	(ii) capsules	
4	Glutamine,glycine,inositol,sorbi (i) cyanophycin granules (iii) cell wall components	(ii) inclusion bodies	•
5	is the most co (i) fragmentation (iii) budding	ommon method of repr (ii) binary fission (iv) sexual reproduc	
6	Spirulina contains ar (i) 40-60 % dry weight (iii) 50-90 % dry weight	(ii) 50-70 % dry weig	ght
7	Fungi Imperfecti is		
	(i) Ascomycetes (iii) Zygomycetes	(ii) Basidiomycetes (iv) Deuteromycetes	
8	j_s the common for (i) Aspergillus (iii) Fusarium	ungi used in industrial o (ii) penicillium (iv) Rhizopus	enzyme production
9	Entamoeba Comes under the cl (i) Ciliata (iii) Teleospora	lass (ii) Mastigophora (iv) Myxosporidia	
10	Without the rejuvenating effects ages and dies. (i) Amoeba (iii) Trichomonas	s of autogamy or conjug (ii) Taenia (iv) Paramecium	gation a

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Cont...

SECTION - B (35 Marks)

Answer **ALL** Questions

ALL Questions Carry **EQUAL** Marks (5x7 = 35)

11 a Explain the features of Spontaneous Generation Theory

OR

- b Outline the contributions of Alexander Fleming and Selman Waksman
- 12 a How are bacteria differentiated based on cell wall characteristic Explain.

OR

- b Explain the cell membrane organization of bacterial cell. Add a note on Flagella and their motility pattern
- 13 a Explain the features of distribution and nutrition of algae

OR

- b Explain the methods of reproduction in Algae
- 14 a Detail an account on fungal reproduction

OR

- b Illustrate the life cycle of Rhizopus stolonifer
- 15 a Discuss the classification of Protozoans

OR

b How do protozonas reproduce. Explain with illustrations

SECTION - C (30 Marks!

Answer any **THREE** Questions

ALL Questions Carry **EQUAL** Marks (3x10 = 30)

- Describe the contributions made by Louis Pasteur and Robert Koch?
- 17 Compare and contrast the cellular morphology of prokaryotic and Eukaryotic cells?
- Discuss about the commercial products derived from Algae?
- Detail an account on classification of Fungi with suitable examples?
- 20 Explain the sexual reproduction in Paramecium caudatum

Z-Z-Z END