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DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



(For Candidates admitted from 2020-2021 onwards)

PG DEGREE EXAMINATIONS APRIL - 2021 M.Sc., - MICROBIOLOGY

ENVIRONMENTAL AND AGRICULTURAL MICROBIOLOGY

Time: 3 Hrs Max.Marks: 75

PART - A

CHOOSE THE CORRECT	Γ ANSWER			(10X1=10)
1. What is called for the mi	xture of all the conte	ents of soil?		
a) Erosion	b) Sublimation	c)Degradation	d) Loams
2. The source of carbon to p	plants in the carbon of	cycle is		
a) Fossil fuels	on dioxide			
d) all of the above				
3. Chlorofluorocarbon are r	on-flammable chem	nicals mainly	used in	<u> </u>
a) Perfumes	b) refrigerators	c) Air conditioners	d) All of the above
4. Which of the following is	s called the secondar	ry air polluta	ant?	
a) PANS	b) ozone	c) Carbo	n monoxide	d) Nitrogen di oxide
5. Which of the following s	ubstrate for biogas p	production?		
a) E-waste b) met	allic waste c) M	Iunicipal &	residential waste	d) Gaseous effluents
6. This is not an indigenous	microbe used for bi	ioremediatio	n	
a) Pseudomonas aeru	ginosa	b) Piscirio	ekettsia salmonis	
c) Phanerochaete soro	lida	d) E.coli		
7. The water vapour presen	t in the unit volume	of air is call	ed	
a) Relative humidity	b) static hur	midity c) Absolute humidity	d) total humidity
8. The dominant mineral pa				
a) Sodium	b) potassium	c) M	agnesium	d) iron
9. Which of the following s	hows the absence of			
a) Green algae	b) red algae	c) Blue	green algae	d) brown algae
10. VAM is				,
a) Bio insecticide	b) Bio herbici	de c) Ectomycorrhiza	d) Endomycorrhiza

ANSWER ALL THE QUESTIONS

(5X7=35)

11. a) Write a brief account of types and structure of soil?

(OR)

- b) Explain in detail the Carbon cycle?
- 12. a) List out water borne diseases and their causative agent?

(OR)

- b) Write a brief account on microbes in Air droplet nuclei?
- 13. a) Write a short note on Composting?

(OR)

- b) Briefly explain the microbes in mineral leaching?
- 14. a) Describe the structure and function of Agro ecosystem?

(OR)

- b) Explain the role of microbes in crop production?
- 15. a) Write a note on production and application of Rhizobium?

(OR)

b) Comment on role of Mycorrhizae?

PART - C

ANSWER ANY THREE QUESTIONS

(3X10=30)

- 16. Write a detailed account of soil microbes and their activities?
- 17. Discuss in detailed about the microbial assessment of water quality?
- 18. Explain in detail about the various methods of biogas production?
- 19. Describe the harmful role of microbes in agro ecosystem?
- 20. Discuss about phosphate solubilizing and utilizing bacteria in blue green algae?