	SUB.CODE: 18UMB2C3								
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DHANALAKSHMI SRINIVASAN COLLEGE OF ARTS & SCIENCE FOR WOMEN (AUTONOMOUS)



(For Candidates admitted from 2020-2021 onwards)

UG DEGREE EXAMINATIONS APRIL – 2021 B.SC - MICROBIOLOGY MICROBIAL PHYSIOLOGY

	Tir	ne: 3 Hrs		Max.Marks: 75			
			PART-A				
C	HOO	OSE THE CORREC	T ANSWER		(10*1=10)		
	1.	Name those bacteria	a which obtain energy from	chemical compounds?			
		a) Chemotrophs	b) Phototrophs	c) Organotrophs	d) Heterotrophs		
	2.	Organisms that obta	in energy from light are calle	ed			
		a) Chemotrophs	b) Phototrophs	c) Organotrophs	d) Lithotrophs		
	3.	Theelen	cell as cations and play	a variety of roles.			
		a) Minor elements	b) Major elements	c) Potassium	d) Phosphorus		
	4.	In growth curve the	·				
		a)10-12 hours	b) 15-20 hours	c) 24 hours	d) 48hours		
	5.	Biological membran	es consist of				
		a) Double sheet	b) Single sheet	c) Trible sheet	d) Tetra sheet		
	6.	The oxidative stress	can cause disruption in norm	mal of			
		a) Cellular signalling	g b) I	mbalance			
		c) biological system	s d) 1	Non of the above.			
	7.	The subst	and required for				
		microbial growth.					
		a) Nutrients	b) Foods	c) Substrate	d) Nitrogen		
	8.	The balanced events	s of death and growth in a sta	tionary phase is called_			
		a) Cryptic growth	b) Affecting growth	c) Growth phase	d) None of these		
	9.	The process of form	ation of endospore with in a	vegetative cell is called	l <u></u> .		
			b) Respiration		d) Spore		
	10	. Micro organisms lik	e yeast and bacteria usually	play a vital role in	process.		
		a) Fermentation	b) Diffusion	c) Regeneration	d)None of these		

ANSWER ALL THE QUESTIONS

 $(5 \times 7 = 35)$

11. a) write an account on the nutritional types of bacteria.

(OR)

- b) Explain about bacterial photosynthesis.
- 12. a) Give an account on Minimal media

(OR)

- b) Describe in detail about undefined media.
- 13. a) What are the 3 steps of Glycolysis? Explain.

(OR)

- b) write an account on the oxidation mechanisms.
- 14. a) Explain about the expontial phase.

(OR)

- b) Write short notes on bacterial growth curve.
- 15. a) Give an account on the sporulation.

(OR)

b) Write an account on fermentation process.

PART - C

ANSWER ANY THREE QUESTIONS.

 $(3 \times 10 = 30)$

- 16. Explain in detail about the Microbial nutrition.
- 17. Describe in detail about the types of media.
- 18. Explain about the EMB pathway.
- 19. Give an account on the methods of growth measurement of microbes.
- 20. Describe in detail about the natural properties of Spores.