17U277	(Pages:	: 2)	Name	
SECOND	SEMESTER B Sc DEGRE	E EVAMINAT	Reg. No	
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	CC17U FT2 B03 - FOOD	<i>'</i>	LOGY I	
	(Core Co			
T' TI II	(2017-Admission	on Regular)	M ' 00 M 1	
Time: Three Hours			Maximum: 80 Marks	
	PART	<b>A</b>		
	Answer <i>all</i> the questions. Eac	ch question carri	es 1 mark.	
Multiple Choice				
	e first person to describe mici	_		
a) Louis Pasteur		b) Robert K	b) Robert Koch	
c) Antony van Leeuwenhoek		d) Edward J	d) Edward Jenner	
2	is the ability of a lens to seg	parate or disting	guish between small objects	
that are close	e together.			
a) Resolution	b) Magnification	c) Focus	d) numerical aperture	
3. Which is a sp	porulating bacterium?			
a) Clostridiu	m b)Salmonella	c) Vibrio	d) Streptococcus	
4. The body of fungi is known as				
a) Filament	b) Thallus	c) Spore	d) Conidia	
Name the following	:			
5. Name a bacto	Name a bacteria which is visible to naked eye			
6. Microbes tha	Microbes that obtain their nutrients from dead organic material			
7. Who disprov	. Who disproved the spontaneous generation theory?			
8. The space be	8. The space between plasma membrane and outer membrane in gram negative bacteria.			
Fill in the blanks:				
	sis that living organisms cou	ld develop from	nonliving matter is known	
as		1		
	h as grow as ol	hligate intracell	ular parasites	
10. Dactoria baci	510 W at 01		P	

 $(10 \times 1 = 10 \text{ Marks})$ 

## PART B

Answer any *five* questions. Each question carries 2 marks.

- 11. Define numerical aperture.
- 12. What is dimorphic fungus?
- 13. Define budding.
- 14. Describe how agar is well suitable as a solidifying agent.
- 15. Koch's postulates.
- 16. Differentiate between Procaryotes and Eucaryotes.
- 17. Define generation time.

 $(5 \times 2 = 10 \text{ Marks})$ 

## **PART C**

Answer any six questions. Each question carries 5 marks.

- 18. Briefly describe how spontaneous generation theory was disproved.
- 19. Explain Fluorescence Microscope.
- 20. What are the different methods of fungal reproduction?
- 21. Contributions of Louis Pasteur?
- 22. Briefly write on bright field and dark field microscopy.
- 23. Bacterial motility and flagella.
- 24. Nutritional types of bacteria based on sources of carbon, energy, and electron.
- 25. Economic importance of fungi.

 $(6 \times 5 = 30 \text{ Marks})$ 

## PART D

Answer any two of the following. Each question carries 15 marks.

- 26. What are the characteristic features of viruses? Describe the replication of virus.
- 27. Explain bacterial growth curve and its significance.
- 28. Bacterial Conjugation and its importance.
- 29. What is the principle of electron microscopy? Explain Transmission Electron Microscope and Scanning Electron Microscope.

 $(2 \times 15 = 30 \text{ Marks})$ 

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