(6 p	ages) Reg. No.:	2.	Living organisms arising from non-liv substances can be called	'ing
Code No.: 30545 E Sub. Code: CMMI 11  B.Sc. (CBCS) DEGREE EXAMINATION, NOVEMBER 2023.		IMI 11	(a) spontaneous generation	
			(b) germ theory and cell theory	
		,	(c) univocal generation	
	First Semester		(d) abiogenesis	
Microbiology - Core		3.	The total magnification of a microscope with	
	FUNDAMENTALS OF MICROBIOLOGY A MICROBIAL DIVERSITY	ND	low power lens (10X) and ocular lens (15X) position would be	) 1n
	(For those who joined in July 2021-2022 on	ly)	(a) 25 (b) 15	
Time	e: Three hours Maximum: 7	5 marks	(c) 150 (d) 1500	
	PART A — $(10 \times 1 = 10 \text{ marks})$	4,	A major difference between the SEM and the T	ΈM
	Answer ALL the questions.		is that the SEM	
	Choose the correct answer:		(a) can resolve objects smaller than nanometer	20
1.	An Italian physician who demonstrate maggets arise from fly eggs and not rotter was		(b) requires less of a vacuum system than TEM	the
	(a) Louis Pastuer	,	(c) can create three dimensional images	
	(b) Robert Koch		(d) does not require the use of any metal coat	ting
	(c) Redi (d) Edward Jenner		of the specimen Page 2 Code No.: 3054	
5.	All of the following structures of bacteria ar of protein except	re made 9.	Which of the following structures would no associated with fungi?	ot be
	(a) plasmids (b) ribosomes		(a) Mitochondria	
	(c) pilli (d) cell membras	ne	(b) Cell walls	
0		. C 1	(c) Chloroplasts	€
6.	Any substances containing polysaccharide external to the cell wall is known the		(d) Spores	
		10.	Which of the following microbes is generall?	rally
			(a) bacteria (b) protozoa	
	(c) glycocalyx (d) peptidoglyco	n	(c) fungi (d) viruses	
7.	are very small, multi-shaped	bacteria	PART B — $(5 \times 5 = 25 \text{ marks})$	
	lacking a true cell.		Answer ALL questions choosing either (a) or (b).	
	(a) Rickettsias (b) Actinomycet	es	Answer ALL questions choosing either (a) of (b).  Answer should not exceed 250 words.	
	(c) Spirochetes (d) Mycoplasma			
8.	Which kingdom would an organism w	ith the	(a) Describe Germ theory of Diseases.	
	following characteristics most likely belon		Or	
	nucleus, multicellular, photosynthetic,		(b) Report the findings of Jenner.	
	chloroplasts within cytoplasmic matrix?	12.	(a) Categorize the different temperature Pasteurization.	of
	(a) Chromista (b) Eubacteria			
	(a) Chromista (b) Eubacteria (c) Protozoa (d) Plantae		Or  (b) Explain about the enrichment media.	

13. (a) Describe about Capsule.

Or

- (b) Classify the structure of bacterial cell wall.
- 14. (a) Explain the futures of Streptomyces.

Or

- (b) Interpret about the appendaged bacteria.
- 15. (a) Explain the general characteristic of Algae.

Or

(b) Illustrate the structure with suitable example for helical capsid.

PART C —  $(5 \times 8 = 40 \text{ marks})$ 

Answer ALL questions by choosing either (a) or (b).

 (a) Interpret the contributions of Antony Van Leewenhoek in the field of microbiology.

Or

- (b) Analyze the Spontaneous generation theory Vs Biogenesis.
- 17. (a) Describe about the Electron microscopy and its applications.

Or

(b) Illustrate and explain about Autoclave.

Page 5 Code No.: 30545 E

18. (a) Write a detail notes on Staphylococcus.

Or

- (b) Describe about the plasmids and classify their types.
- 19. (a) Discriminate the Bacteria with mycoplasma.

Or

- (b) Describe about the Budding of Bacteria.
- 20. (a) Order phylum of the subkingdom protozoa and describe the type of study of Amoeba.

Or

(b) Illustrate the Structure and summarize the general Characteristics of Rabies.

Page 6 Code No.: 30545 E