(6 Pages)  Reg. No.:	3.	Which organelles are not membrane bound eukaryotic cells?
Code No.: 20545 E Sub. Code: CAMI 21		<ul><li>(a) Mitochondria</li><li>(b) Ribosomes</li><li>(c) Plastid</li><li>(d) Golgibody</li></ul>
B.Sc. (CBCS) DEGREE EXAMINATION, APRIL 2023.  Second Semester  Microbiology — Allied - I  GENERAL BIOLOGY	4.	Function of golgi apparatus is ——————————————————————————————————
(For those who joined in July 2021 onwards)  Time: Three hours Maximum: 75 marks  PART A — (10 × 1 = 10 marks)  Answer ALL questions.  Choose the correct answer:	5.	The process of mitosis occurs—  (a) only in bacteria  (b) in viruses as well as bacteria  (c) in eukaryotic organisms  (d) only in chemically defined media
1. The slimy outer covering of bacteria which protects them from phagocytosis is known as	6.	The generation time for all microorganisms —  (a) varies (b) is 30 minutes  (c) is 3 hours (d) is 12 hours
(a) Capsule (b) Cell wall (c) Flagellum (d) Peptidoglycan  2. Prokaryotic cell do not possess ———  (a) Nuclear envelope (b) Ribosome	7.	The structure of the plant cell is non living ——  (a) nucleus (b) cell wall  (c) cytoplasm (d) mitochondria

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(d) Plasmamembrane

2.

(c) Mesosome

	(c) Mitochondria (d) Biotechnology		Or
9.	Aquaculture is the farming of ———		(b) How are flagella differ in prokaryotes and eukaryotes?
	(a) Fishes and crustaceans	1	
10.	(b) Mollusks	13.	(a) Explain the process of binary fission in
	(c) Aquatic plants		bacteria.
	(d) All of the above		Or
	Animals do not have enzyme systems which enable them to make use of the energy from		(b) What is fragmentation with examples?
		14.	(a) Describe the methods of propagation in
	(a) fat (b) cellulose	*	horticulture.
	(c) protein (d) carbohydrate	3	Or
ž	PART B — $(5 \times 5 = 25 \text{ marks})$		(b) Focus the general characters of thallophyta with examples.
	Answer ALL questions, choosing either (a) or (b).  Each answer should not exceed 250 words.	15.	(a) Express your views about sericulture.
11.	(a) Describe the function of the bacterial capsule.		Or
	$\operatorname{Or}$	*	(b) Report the facts about earthworm.
*	(b) What is mesosome and its functions?	1	
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			[P.T.O.]

12.

(a) Illustrate the general

functions of mitochondria.

Or

characters

and

[P.T.O.]

— is the study of the cell, its types,

(b) cell biology

structure, functions and its organelles.

(a) Biology

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

Answer ALL questions, choosing either (a) or (b). Each answer should not exceed 600 words.

 (a) Explain in detail about nuclear materials of eubacteria.

Or

- (b) Write a detail notes on extra mural layer in bacteria.
- (a) Illustrate the structure and importance of eukaryotic cell wall.

Or

- (b) Record the structure and functions of ribosomes.
- 18. (a) Explain in detail about mitosis.

Or

- (b) Discuss in detail about meiosis.
- (a) Focus the general characters of halophytes.

Or

(b) Illustrate the economic importance of biodiesel.

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 (a) Write a detail notes on human digestive system.

Or

(b) Describe in detail about general characteristics of invertebrates.

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