(6 pages) Reg. No.:	2. Gram positive cells have ————.
G 1 GAMI 91	(a) Thick, homogenous cell wall
Code No.: 30556 E Sub. Code: CAMI 21	(b) Large amounts of teichoic acids
B.Sc. (CBCS) DEGREE EXAMINATION,	(c) No outer membrane
NOVEMBER 2023.	(d) All of these
Second Semester	3. Mitochondria is the site for ———.
Microbiology — Allied — I	(a) Protein synthesis
GENERAL BIOLOGY	(b) Lipid synthesis
(For those who joined in July 2021-2022)	(c) ATP synthesis
Time: Three hours Maximum: 75 marks	(d) Carbohydrate synthesis
PART A — $(10 \times 1 = 10 \text{ marks})$	4. Subunits for FOS prokarotic ribosomes are
Answer ALL questions.	(a) 50 S and 30 S subunit
Choose the correct answer:	(b) 40 S and 30 S subunit
to a large is organized and is firmly	(c) 50 S and 20 S subunit
attached to the cell wall, the glycocalyx is	(d) 50 S and 40 S subunit
described as ————.	
(a) Capsule	5. Fragmentation occurs in(a) Nocardia sp. (b) Streptomyces sp.
(b) Slime Layer	(c) Bacillus sp. (d) Stella sp.
(c) Biofilm	(c) Bacinus sp. (u) Stena sp.
(d) Newston	Page 2 Code No.: 30556 E
6. Period of growth phase where generation time reaches a constant minimum ———.	PART B — (5 × 5 = 25 marks)
(a) Lag phase (b) Log phase	Answer ALL questions, choosing either (a) or (b).
(c) Death phase (d) Stationary phase	Each answer should not exceed 250 words.
7. Which of the following is a functional unit of a	11. (a) Describe the reserve materials found in Eubacteria?
body?	Or
(a) Lymphocytes (b) Spleen	(b) Explain the nuclear material of Eubacteria.
(c) Peyer of patches (d) Cell	12. (a) What is chloroplast and its structure?
8. RNA is present in which of the following cell organells	Or
(a) Cell wall (b) Ribosomes	(b) Focus on eukaryotic cell nucleus and its
(c) Nucelus (d) Golgi complex	functions.
9. In animal, cardiac muscle tissue is a contractile tissue present only in the ————.	13. (a) Describe the events take place during interphase.
(a) Liver (b) Brain	Or
(c) Heart (d) Lungs	(b) Why is mitosis called equational division.
10. In animal — tissue exerts the greatest control over the body's responsiveness to changing	14. (a) Tell the general characters of Bryophyta?
conditions.	Or

(a) Neural

(c) Oesophagus

(b) Nephritic

(d) Brochiyal

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(b) Illustrate

Sunflower.

the economic importance

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15. (a) Report the general characteristics of vertebrates.

Or

(b) Explain briefly about Apiculture.

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 cell membranes of eubacteria.

Or

- (b) Write a detail notes on cytoplasmic inclusions in eubacteria.
- 17. (a) Describe about Endoplasmic reticulum structure and its functions.

Or

- (b) Record the important characters and functions of golgi complex.
- 18. (a) Differentiate Mitosis and Meiosis.

Or

(b) Name the reproduction types in microbes and write the characters of each reproduction type.

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19. (a) Employ the economic importance of coffee.

Or

- (b) Explain in detail about the general characters of Gymnosperms.
- 20. (a) Summarize the significance of Human Respiratory System.

Or

(b) Give a brief account of Aquaculture.

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