

FACULTY OF HEALTH AND APPLIED SCIENCES

DEPARTMENT OF NATURAL AND APPLIED SCIENCES

QUALIFICATION: BACHELOR OF SCIENCE		
QUALIFICATION CODE: 07BOSC	LEVEL: 5	
COURSE NAME: GENERAL BIOLOGY 1B	COURSE CODE: GNB502S	
SESSION: NOVEMBER 2019	PAPER: THEORY	
DURATION: 3 HOURS	MARKS: 100	

FIRST OPPORTUNITY EXAMINATION QUESTION PAPER				
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MODERATOR:	DR LAMECH MWAPAGHA			

INSTRUCTIONS	
1.	Write clearly and neatly
2.	Number the answers clearly
3.	All written work MUST be done in blue or black ink
4.	No books, notes and other additional aids are allowed
5.	Mark all answers clearly with their respective question numbers

PERMISSIBLE MATERIALS

None

THIS QUESTION PAPER CONSISTS OF 4 PAGES

(Including this front page)

QUEST Multip	ION 1: le choices	[3]
	Cardiac muscle is a) striated b) involuntary c) smooth d) both a and b are correct	(1)
1.2	The conducting parenchyma cell of angiosperm phloem is called a (a) sieve tube member (b) tracheid (c) stoma (d) vessels	(1)
1.3	At lunch George ate a mushroom, some truffles, a little Camembert cheese, and a bit of moldy bread. Which of the following groups was <i>not</i> represented in the meal? (a) Basidiomycota (b) Ascomycota (c) Chytrids (d) Zygomycota	(1)
QUEST Fill in t	ION 2: he blanks	[5]
2.1	The haploid form of a plant is known as the generation.	(1)
2.2	gland produce epinephrine.	(1)
2.3	The two simple tissues that are specialized for support are and	(1)
2.4	Fibroblasts are a type of connective tissue.	(1)
2.5	The pancreas produces two important hormones, and	(1)
QUEST Define	ION 3: the following terms	[4]
3.1	Kinetoplast	(1)
3.2	Coenocyte	(1)

3.3	Fiddle head	(1)
3.4	Insulin	(1)
	TION 4: guish between the pairs of the following terms.	[10]
4.1	Phylum; division	(2)
4.2	Halophile; thermoacidophile	(2)
4.3	Plasmodial slime mold; Cellular slime mold	(2)
4.4	Lichen, mycorrhiza	(2)
4.5	Endocrine; exocrine gland	(2)
	FION 5: entences answers	[2]
5.1	What is a prophage?	(1)
5.2	What is the basis of classification of algae?	(1)
	TION 6: questions	[5]
6.1	List two plant-like and two animal-like characteristics of euglenoids.	(2)
6.2	Name the two posterior-pituitary hormones and describe their actions and sites of production.	(3)
	<u>r questions</u>	[34]
7.1	List the steps in a conjugation reproduction. Draw diagrams to illustrate your answe	r. (4)
7.2	Name the five important plant hormones and its main function.	(5)
7.3	Describe the fluid connective tissue and its function.	(5)
7.4	Name the division of gymnosperm and compare the leaf structure and the places where they grow.	(6)

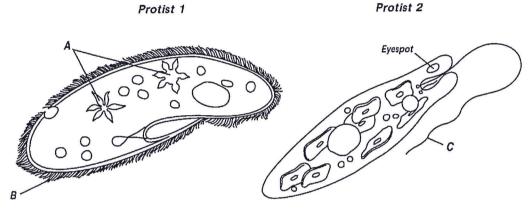
7.5 What is the similarity and difference between slime mold and fungi? (6)

7.6 Describe the common shapes and the grouping of prokaryotic cells with a diagram. (8)

QUESTION 8: [10]

Structures and functions

Use the diagram to answer the following questions.



- 8.1 Identify the two protists shown in the diagram, and state whether each protist is animal-like, fungus-like, or plantlike. (2)
- 8.2 Identify the structures labeled A in the diagram and describe their functions. (2)
- 8.3 Identify the structures labeled B in the diagram and describe their functions. (2)
- 8.4 Identify the structure labeled C in the diagram and describe its function. (1)
- 8.5 What is the function of the eyespot in Protist 2? (2)
- 8.6 State whether each protist shown in the diagram is a heterotroph, an autotroph, or both. (1)

QUESTION 9:

Essay question [27]

- 9.1 Describe the discovery and general characteristics of viruses. (13)
- 9.2 Using a well labelled diagram briefly ascribe/outline the main stages of embryo development. (14)

THE END