EXPERIMENT 7: DIVERSITY OF BACTERIA

Course Learning Outcome:

Solve problems related to transport system processes, mechanisms for adaptations in living things, ecological and environmental issues in biology.

(C4, PLO 2, MQF LOC ii)

Learning Outcomes:

At the end of this lesson, students should be able to:

- i. Differentiate Gram-positive and Gram-negative bacteria.
- ii. Identify the different shapes of bacteria.
- iii. Identify the functions of chemical used in Gram staining process.

Student Learning Time:

Face-to-face	Non face-to-face
1 hour	1 hour

Direction: Read over the lab manual and then answer the following questions.

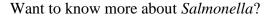


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Bernama online news: https://www.malaysiakini.com/news/448379



https://www.youtube.com/watch?v=xOamez79hLA







Gram staining: https://biologydictionary.net/gram-positive-vs-gram-negative/

Introduction:

1.	State TWO ways to show the diversity of bacteria.			
2.	What is Gram staining?			
3.	What are the differences between Gram-positive bacteria and Gram-negative bacteria i term of cell wall?			
Ex	xperiment:			
1.	State the variables for this experiment:			
	Constant variable :			
	Manipulated variable :			
	Responding variable :			
2.	Why it is important to heat-fixing the bacteria?			
3.	Why gram-positive bacteria stained purple crystal violet?			
4.	Why do we add iodine?			
5.	What is the purpose of alcohol?			

7.	Which	is the most crucial step in	Gram stain?
8.	State t	he shape of each bacterium	
	i.	Escherichia coli	<i>:</i>
	ii.	Staphylococcus aureus	·
	iii.	Lactobacillus acidophilus	:
		Vibrio cholera	:
	v.	Leptospira interrogans	·
0	Liat!	PHDEE proposition stone for	ou the experiment
9.	List	THREE precaution steps for	or the experiment.