# College of Science Department of Botany & Microbiology

## كلية العلوم قسم النبات والاحياء الدقيقة



### First Midterm Exam Academic Year 1446-Hijri- First Semester

Exam Date (Hijri): ۱٤٤٦/ربيع الأول/٢٦ Exam Date (Gregorian):۲۰۲٤/۰۹/۲۰	Course Code: 463 MBI	
Exam Time: 1 - 3 PM	Course Name: Antibiotics	

Student's Name			اسم الطالب
ID number			الرقم الجامعي
Section No.	<u>4569</u>	<u> </u>	رقم الشعبة
Classroom No.	<u>1 B 11 B. 5</u>	<u>اب ۱۱ م ٥</u>	رقم قاعة الاختبار
Instructor Name	Prof. Dr. Naiyf S Alharbi الحربي	أ.د. نایف بن سلطان	اسم أستاذ المقرر
Serial Number			الرقم التسلسلي

#### **Instructions:**

1-	Your Exam consists of	1	PAGES and	1	ANSWER SHEET.
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2- Keep your mobile and smart watch out of the classroom

#### This section is ONLY for instructor

#	Course Learning Outcome	Question (s)	Points	Actual
		covered		Point
1. Knowledge	CLO 1-1:	Q1 (2A,2B)	1+1+0.5+0.5+0.	
	Initial concepts of antibiotics	Q2 (2,4, 6,7,8,9,10)	5+0.5+0.5+0.5+	
	1	Q3 (1,3)	0.5+0.5+0.5	6.5
	CLO 1-2:	Q3 (4)	0.5	
	Comprehension of extracting			
	and measuring the rate of			
	reaction of antibiotics and			0.5
	antibiotic biosynthesis			0.5
	CLO 1-3:	Q1 (1)	1+0.5+0.5	
	How to use antibiotic treatment and methods of	Q2 (1,3)		
	use in the prevention			2
	CLO 1-4:	Q3 (2)	0.5	
	Learn how to detect the	Q3 (2)	0.3	
	activity of antibiotics			
	•			0.5
2. Cognitive	CLO 2-1:	Q2 (5)	0.5	
Skills	Discuss where antibiotics			
	come from.			0.5
	CLO 2-2:	-	-	
	Discuss the causes of the			
	development of antibiotic			
	resistance			0
	CLO 2-3:	-	-	
	How to use antibiotics in the			
	treatment and side effects.			0

FINAL Score
10

21:	Mention and discuss	as required:		(3 Marks)	
	1- Explain the importa	ance of Selective Toxicity	in antibiotics?	(1 Mark)	
	2- Define the following A- Disinfectants:	g terms:		(1 Maula)	
	A- Distillectants:			(1 Mark)	
	B- Antibacterial:			(1 Mark)	
2: P	ut a check (√) mark i	f the statement is corre	ect and (×) mark if incorre	ect. (5 Marks)	
1		crobials, but not all antimicro			
2		ble to purify penicillin for m			
3			en a rapid diagnosis is required.		
4		by both bacteria and parasite			
<b>5</b>		es of antibiotics are bacteria.		from that in bacteria	
7	The sedimentation coefficient of ribosomal proteins in algae and protozoa is different from that in bacteria.  One of the quality characteristics of antibiotics is that it does not metabolize to toxic intermediates.				
8	Antibiotics are chemicals that can kill or inhibit microbes. They have a high molecular weight and can be				
9	swallowed or injected.  Antigen a type of protein	called an immunoglobulin	that reacts with a specific antig	gen and acts as part of the	
9	body's vital defense mech				
10	1	ons adding or injecting a harm the harmful via the harmless	nless microbe to replace another s inside the body.	harmful, pathogenic	
3: S	elect the correct ansv	ver for the following m	ultiple-choice questions.	(2 Marks)	
			•	, ,	
1.	-	ecialized in killing or inhibi b- Antiviral		1 Camitiman	
	a- Antiseptic		c- Antifungal	d- Sanitizer	
2-	2 The activity of the combined antibiotic group is less than that of the most active antibiotic in the group.				
	a- Addition	b- Antagonism	c- Synergism	d- Indifference	
3.	are tests that are p	performed inside the body of	of a living organism.		
	a- In vitro	b- In vivo	c- Both a and b	d- None of the above	
4- One of the standard methods for determining the effect of antibiotic activity is based on measuring of light extracted .					
	a- Enzyme Activity	b- Nephelometry	c- Impedance	d- Turbidimetry	