

Final Exam:	Frist Semester	Course Code:	B2-24	Percentage	80%
Academic Year:	2018/2019	Academic Program:	Master	N. of Exam Paper	1
Level:	Master	Department:	Microbial Biotechnology	Date	24/1/2018
Course Name:	Seminars	Total score:	80	Time allowed:	3h

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Instructions of Exam: 1. Answer the obligatory questions.

- 2. Use the blue pen and pencil in answer sheet
- 3. Allow one sheet answer for every student
 4. Is not allowed to borrow the tools (pen, pencils, drawing tools, calculator ...etc)
- 5. Is not allowed to use the cell phone or any of its application during the time of exam

Name: Mousa Eltlawy

1 st question:	(20 marks)
Identify the following a- Antibiotics	
b- Multiple drug resistance (MDR)	
C- Pan drug resistance (PDR)	
D- CARBAPENEMS	
E- Beta- lactamases	
2 nd question:	(20 marks)
Classify Anti biotics by their mode of action?	
3 rd question:	(20 marks)
Discuss in detailed the deferent mechanism of antibiotic resistance Drawing?	in bacteria With
4 th question:	(20 marks)
Chose two methods for Laboratory Evaluation of Carbapenem Resbetween them?	sistance and compare
With best wishes	

Professor of Course	Dr. Rateb Nabil	Course coordinator	Dr. Rateb Nabil	
Staff Course Dr. Rateb Nabil Dr. Abeer Mohamed		Department Head	Prof.Dr. Atef Ibrahem	
Exam group	Dr. Hanafy Hamza, Dr. Rateb Nabil, Dr. Ragaa Hamouda			

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