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|  University of Sadat City | Final Exam: | First semester | Course Code: | B2-24 | Percentage | |  |
| | Academic Year: | 2018/2019 | Academic Program: | | N. of Exam Paper | 1 | |
| | Level: | Master | Department: | Microbial Biotechnology | | | |
| | Course Name: | مناقشات | Total score: | 80 | Time allowed: | 3h | |

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

1st question: (20 marks)

Explain the Effect of ginger extract as antimicrobial compound against *streptococcus pyogenes* .

2nd question: (20 marks)

What are virulence factors which enable *streptococcus pyogen* attach to host?

3rd question: (20 marks)

Explain the role of Macrolides as antimicrobial on *streptococcal pyogenes*

4th question (20 marks)

Write mechanism of action of *streptococcus pyogen* with host.



With best wishes

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|---------------------|---|--------------------|-------------------------|
| Professor of Course | Dr Mahmoud AbdEl-Mongy | Course coordinator | Dr. Mahmoud AbdEl-Mongy |
| Staff Course | | Department Head | Prof. Atef Ibrahim |
| Exam group | Prof. Hanafy Hamza, prof. Atef Ibrahim and Dr Rateb Nabil | | |

نموذج رقم: SQ0000000F101002
الإصدار (0/2) 2018/01/14