

Examination for Master Degree in Pediatric (New):  
Course Title: Microbiology and Immunology  
Date: 24/ 8/ 2021  
Term: 1<sup>st</sup> part  
Time Allowed: 1 hour  
Total Assessment Marks: 60 marks  
Number of the questions:6



Tanta University  
Faculty of Medicine  
Department of Microbiology  
& Immunology

**All the questions should be answered:**

**Q1:**

- a) Discuss two mechanisms of action of antibacterial drugs. (6 marks)
- b) Determine the clinical types of toxic complex syndrome. (6 marks)

**Q2: Mention the causative organism and laboratory diagnosis of:**

- a) Scarlet fever (5 marks)
- b) whooping cough (5 marks)
- c) Typhoid fever (8 marks)

**Q3: Discuss Mechanisms by which E. coli can cause diarrhea. (7 marks)**

**Q4:**

- a) Compare between Neutralizing antibodies and interferone. (4 marks)
- b) Discuss viral tropism. (3 marks)

**Q5: What is the mode of infection, diagnosis and how to prevent HAV. (8 marks)**

**Q6:**

- a) Discuss mycotoxicosis. (4 marks)
- b) Medical importance of fungal cell structures. (4 marks)

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*Oral exam will be held on 30 /8 /2021 at 10:00 am in the Microbiology Depart.*

**Good Luck**

**Chairman of Department:**

**Prof Dr.**

