

Tanta University

Faculty of Medicine

Microbiology and Immunology department

Examination of microbiology and immunology for Diploma degree of public health

Date: 21-8-2019

total marks: 45

1-Give short notes on (10 marks)

- d- Comparison between eukaryotes and prokaryotes.
- e- Type II hypersensitivity reaction
- f- Different pathways of complement activations

2-Enumerate the organisms which are common causes of community acquired pneumonia in immunocompromised patients and discuss one of them in details. (10 marks)

3-Enumerates gram positive spore forming bacilli and discuss one of them in details. (10 marks)

4-70 years old man with leukemia has become coughing purulent sputum, gram stain of the sputum reveals no organism, but KOH preparation revealed septate hyphae with parallel walls and long angle branching, discuss in details the most probable cause of infection. (7marks)

5-a 50 years old woman has a gradual onset of headaches that have become increasingly more severe during the past 3 weeks. On examination, she is confused regarding time, place, and person, and she is febrile to 39⁰ C. Her spinal fluid reveals a normal glucose, normal protein, and 17 cells, all of which were lymphocytes. Gram stain of the spinal fluids shows no organisms. An MRI reveals a 2 Cm radiolucent lesion was performed. A giemsa stain shows a multinucleated gaint cells with intranuclear inclusion bodies. Discuss the possible causative organism in details. (8 marks)

