Examination for Diploma Degree in: Tropical Medicine Course title: Medical Microbiology & Immunology

Date: 1 /4 / 2019 Term: April 2019

Time allowed: 1.5 hour

Total assessment marks: 25 marks



All Questions Are To Be Answered:

(5 marks each)

- 1- Discuss bacterial virulence factors.
- 2- Discuss types and mechanism of toxic immune complex syndrome.
- **3-** Mention the **causative agents** and **mode of transmission** of the following diseases:

a- Malta fever (1 mark)

b- Epidemic cerebrospinal meningitis (1 mark)

c- **Botulism** (1 mark)

d- Glandular fever (1 mark)

e- Whooping cough. (1 mark)

- 4- Discuss mode of infection, diagnosis and treatment of Hepatitis B virus (HBV).
- 5- A 7 years old child presented with spasm in the jaw muscles. His mother said that he was injured with a rusted nail 6 days ago. His condition shows worsening with severe muscle pain and breathing difficulties. (1 mark each)
 - 1. What is your diagnosis for this case?
 - 2. What is the organism responsible of this disease?
 - 3. What is the main virulence factor?
 - 4. What is the first line of treatment in this case?
 - 5. How can you prevent such disease?

Head of Department Prof. Mohamed Zakaria