Examination of the Master degree in Biochemistry(2nd Semester) Tanta university

Course Title: Microbiology and Immunology

Faculty of Medicine

Time Allowed: 3 hours

Microbiology and Immunology Dept.

Total Assessment Marks: 90 Marks

Date: 15/2 /2017

All questions to be attempted:

NB: Questions are in two pages

- Q1) Define meningitis, explain its classification and causative organisms, pathogenesis and laboratory diagnosis. (15 Marks)
- Q2) Explain how H. pylori can cause gastric ulcer, mention laboratory diagnosis, and treatment. (7 Marks)
- Q3)Discuss the laboratory diagnosis and treatment of the following diseases:

(20 Marks,5marks each)

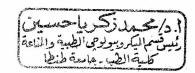
Whooping cough

2-Sub- acute bacterial endocarditis1-

3-Weil's disease 4-Tetanus

Q4) A 53 years old male farmer presents for evaluation of a growth on his arm. About a week ago, he noticed some mildly itchy red bumps on his arm. They started to blister a day or two later and then ruptured. He has cows ,horses .sheep and goats in his farm .On examination of his right upper arm , a black eschar surrounded by blisters and edema was found .He has tender axillary lymph nodes enlargement. A Gram stain of fluid drained from vesicle and biopsy from the eschar both show chains of gram positive bacilli on microscopy.

- 1-What is your diagnosis for this patient ?(2.5 marks)
- 2-What organism is likely the cause of this disease?(2.5marks)
- 3- How to confirm your diagnosis? (5 marks)
- 4-What is the proper treatment? (5 marks)



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Q5)Medical virology:

a-Rabies is a serious disease in human ;describe its pathogenesis ,management andrecent vaccines (10 marks).

b- Discuss causative agent, clinical features and laboratory diagnosis of infectious mononucleosis (glandular fever) (10 marks)

c-Discuss HBV markers and its diagnosticimportance . (5 marks)

Q6) Medical mycology:

Mention the causative agent(s), transmission, Laboratory diagnosis and treatment of thrush. (8 marks)

Good luck

Practical exam will be start on Monday 20/2/2017 at 9 am and Oral exam we be held on Wednesday 22/2/2017 at microbiology dept.

