

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 and recent 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 diagnostic importance . (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.

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