1st paper for 2nd part Master/Degree in: Microbiology &Immunology

Date: 12/10/2014

Time Allowed: 3 hours

Total Assessment Marks: 100

All questions to be answered

Tanta University
Faculty of Medicine

Department of Microbiology and Immunology

I) Give short account on the following (5 marks each) :

a) Glycocalyx
b) Classification for medically important flora according to their anatomical site
c) Plasmid encoded products

II) Discuss the following(5 marks each) :

a) Bacterial biofilm : mechanism of antibiotic resistance and therapeutic approaches
b) Principle and uses for Fluorescence –activated cell sorting
c) Surface virulence factors : enumerate and discuss their role in vaccination
d) Hybridization formate

III)Compare between (5 marks each) :

a) Allotype and isotype of immunoglobulin
b) Acute and chronic desensitization
c) Different invitro tests for lymphoid cell competence
d) T- helper1 and T- helper2 cells

الأستاذ الدكتور / محمد إسماعيل
رئيس قسم الميكروبيولوجي الطبية والمناعة

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IV)**Define the following (5 marks each) :**

a) Chimeric MCA
b) Requirements needed for GVH reaction to occur
c) Factors that affect induction and maintenance of tolerance
e) Syndromes resulting from phagocyte deficiency

V) **Give short account on :** antifungal therapy **(10 marks)**

VI)**Discuss the following :**

a) Basis for viral classification and mention the classification of RNA positive polarity viruses in a table form **(9 marks)**

b) Vaccines prepared from viral mutants and viral reassortants

(6 marks)

Good luck

الشفوي يوم الأربعاء ٢٢
العملي ٢٦-١٠

الأستاذ الدكتور / محمد إسماعيل
رئيس قسم الميكروبيولوجي الطبية والمناعة
كلية طب طنطا

paper for 2nd part Master/Degree in: Microbiology &Immunology

Date: 19/10/2014

Time Allowed: 3 hours

Total Assessment Marks: 100

All questions to be answered

Tanta University
Faculty of Medicine

Department of Microbiology and Immunology

I) **Discuss laboratory diagnosis and treatment for (5 marks each) :**

a) Mycoplasma pneumonia

b) Endemic RF

c) Salmonella entertidis

d) Clostridium difficle

II) **Compare between the causative organisms and laboratory diagnosis for:** 3 different types of bacterial conjunctivitis **(15 marks)**

III) **Enumerate the different diseases caused by the following organisms and mention their laboratory diagnosis (5 marks each):**

a) Mobiluncus

b) Bacteroides fragilis

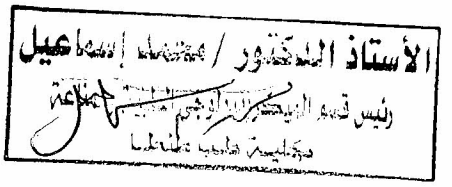
c) Streptococcus agalactiae

IV) **As regard nosocomial infection enumerate the following (5 marks each)** :

a) Its criteria

b) Standard precautions for its prevention

c) Different typing methods used to trace source of infection



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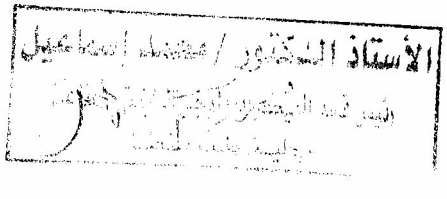

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V)**An infant aged 18 months suffered from abdominal pain and watery bloody diarrhea after eating refrigerated food without heating . Symptoms and signs nearly resemble appendicitis while stool examination revealed pleomorphic g-ve bacilli . Mention the following (2 marks each) :**

a) The most probable causative organism

b) The main source for infection

c) Laboratory diagnosis

d)Treatment

e) Other causative organisms for differential diagnosis

VI) **A 42 – year – old woman with chronic asthma for evaluation of cough . She developed a cough productive of brown mucous and blood , low grade fever and wheezing . X ray shows a lobar infiltration . CBC with elevated eosinophil count was found .(10 marks)**

a) What is the most likely organism
b) What is the morphology of this organism
c) What is the laboratory diagnosis
d) What is the treatment

V)**Discuss the following**:

a) Viral hemorrhagic fever : causes , clinical picture and laboratory diagnosis of the one causing recent outbreak in west Africa **(7 marks)**

b)Neutralizing antibodies and HCV **(4 marks)**

c) Prevention of CMV infection and disease **(4 marks)**

Good Luck