



Tanta University

Total: 30Marks

Faculty of Medicine

Microbiology Department & Immunology

Final exam of Genitourinary surgery Master

Time:1.5 hour

Date : 25/2/2018

- 1- Enumerate Chemicals used for disinfection of endoscopes and steps of disinfection ? (6 marks)

- 2- Day 1: 58-year-old patient is admitted to Emergency with GIT Bleeding , Foley inserted. Day 2: Patient spikes temp of 38.6°C and indwelling catheter remains in place. Day 3: Urine specimen is collected. Day 4: Culture results 100,000 CFU/ml *Pseudomonas aeruginosa*. Antibiotics started. Day 5: Patient asymptomatic and afebrile.
 - a- Is this an Hospital acquired infections ? If so, what type and Explain ? (4 marks)
 - b- What are the suitable antibiotics for this case? (4 marks)
 - c- Enumerate bundle of Catheter associated urinary tract infection prevention ? (4 marks)

- 3- A surgeon had an injury by scalpel during operation to patient by searching for patient history found the patient is positive for Hepatitis B virus , the surgeon was not previously vaccinated .
 - What is the proper management of this case? (4 marks)

- 4- **Directions for MCQ:** Each question below contains four suggested responses. Select the one best response to each question (2 marks for each)

- I-Regarding IgG, which one of the following is the most accurate?
 - a) Each IgG molecule has one antigen binding site.
 - b) During the primary response, it is made in larger amounts than is IgM.
 - C) The ability of IgG to fix complement resides on the constant region of the light chain.



d) It is the only one of the five immunoglobulins that is transferred from mother to fetus in utero.

II- Of the following four types of hypersensitivity reactions, which one causes the hemolysis that occurs in hemolytic disease of the newborn (erythroblastosis fetalis)?

- A) Type I—immediate hypersensitivity
- B) Type II—cytotoxic hypersensitivity
- C) Type III—immune complex hypersensitivity
- D) Type IV—delayed hypersensitivity

III-Regarding the graft-versus-host reaction, which one of the following is the most accurate?

- A) It occurs primarily when a kidney is transplanted.
- B) It is caused primarily by mature T cells in the graft.
- C) It occurs primarily when ABO blood groups are matched.
- D) It occurs primarily when the donor is immunocompromised.

IV- Which of the following sets of cells can present antigen to helper T cells?

- A) Natural killer cells
- B) cytotoxic T cells
- C) Macrophages
- D) eosinophils

GOOD LUCK

يعقد الامتحان الشفهي و العملي يوم الاثنين 2018/3 /5

رئيس القسم

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