

Course No: DMEC 1207
Course Title: Microbiology
Date: 07/1/2014
No. of Questions: (6)
Time: 2hours
Using Calculator (No)

University of Palestine



Final Exam
1ST 2013/2014
Total Grade: 60

Instructor Name: Yusra Al Dadah
Student No.: _____
Student Name: _____
College Name: _____
Dep. / Specialist: _____
Using Dictionary (No)

Question One:

(15 marks)

Chose the appropriate answer from the listed choice of each statement:

1- Normal flora are:

- a. Pathogenic bacteria
- b. Viruses that don't cause diseases
- c. Viruses cause many diseases
- d. Bacteria live inside human and don't cause diseases in normal conditions

2- Bacteria can divide and replicate by:

- a. Mitosis
- b. Meiosis
- c. Budding
- d. Binary fission

3- Pathogenicity is

- a. The ability of microorganism to move.
- b. The ability of microorganism to reproduce.
- c. The ability of microorganism to cause a disease.
- d. The ability of microorganism to obtain food

4- Micrometer (mm) equal:

- a. 10^{-2} meter
- b. 10^{-3} meter
- c. 10^{-6} meter
- d. 10^{-9} meter

5- The bacteria cocci which mostly occur in pairs are:

- a. Streptococci
- b. Diplococci
- c. Tetrads
- d. None of these

6- Sterilization is

- a. Giving a vaccine for people.
- b. Treatment patient by antibiotics.
- c. Killing or removal of all microorganisms and viruses from an object or product.
- d. Washing hands before eating.

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7- Bacteria use flagella to

- a. Contact with each other
- b. Multiply
- c. Move
- d. Get food from outside.

8- Obligate aerobic bacteria can:

- a. Live in high temperature
- b. Live with oxygen
- c. Live without oxygen
- d. Live in low temperature

9- The capsid which is surrounding the virus made of :

- a. Fat
- b. DNA
- c. Protein
- d. Cellulose

10-The man who discovered Tuberculosis bacteria:

- a- Joseph Lister
- b- Christian Gram
- c- Robert Koch
- d- Louis Pasteur

11-The side effect of antibiotic treatment could be:

- a. Allergic
- b. Toxic
- c. Biological
- d. All of the above

12- One of the following hepatitis viruses can be transmitted by food:

- a. Hepatitis A
- b. Hepatitis B
- c. Hepatitis C
- d. Hepatitis D

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13-From the guidelines for management of hospital waste:

- a. Segregation of waste
- b. Storage and transportations of waste
- c. Treatment and disposal of waste
- d. All of the above

14 - Viruses are very small in size so that the only way to see them

- a - Ordinary microscope
- b- Electron microscope
- c- Dark field microscope
- d- Any of the above

15- Viruses can replicate

- a- outside the cells
- b- inside bacteria only
- c- inside most eukaryotic cells
- e- both inside and outside cells

Question Two:

(6 marks)

Write a scientific term for each of the following sentences:

- 1- _____ science deals with the study of fungi.
- 2- _____ discovered penicillin from the plant of mushroom.
- 3- _____ are the smallest size of the microorganisms.
- 4- _____ is a name of disease caused by Rubella virus.
- 5- _____ Cells relatively small and lacks true nucleus.
- 6- _____ Time between infection and manifestation of disease symptoms.

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Question Three: (10 marks)

Put a mark ($\sqrt{\quad}$) or (\times) in front of the following sentences:

- 1- () Most pathogenic bacteria are homozygous.
- 2- () Viruses and bacteria can pass through the pores of filtration membrane.
- 3- () Mycobacterium (T.B) is called acid fast bacteria.
- 4- () Gram negative bacteria appear purple under the microscope.
- 5- () Viruses replicate only inside host cells.
- 6- () Vibrio cholera is gram positive, curved rods (comma shaped).
- 7- () Microbiology is a science which branching from biology.
- 8- () All viruses consist of both RNA and DNA.
- 9- () Blood specimen is used for the examination of the presence of trophozoite or cyst of Entamoeba Histolytica
- 10- () Influenza virus is a small-enveloped virus containing several strands of RNA

Question Four: (6 marks)

A) Define:

Microbiology: _____

Infectious disease: _____

B) From the sources of hospital infection:

- 1. _____
- 2. _____
- 3. _____

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Question Five:

(7 marks)

Answer the following Questions:

A) A patient should be considered infectious if he displays any of the following:

1. _____
2. _____
3. _____

B) Write some of the precaution during collecting bacteriological specimens (at least four)?

1. _____
2. _____
3. _____
4. _____

Question Six:

(16 mark)

Answer (only eight) from the following Questions:

- 1) Mention the stages of viral replication?
- 2) What is the clinical picture of Typhoid Fever?
- 3) Talk briefly about the epidemiology of cholera?
- 4) Compare between the primary infection and the secondary infection?
- 5) What is the source of infection of salmonella?
- 6) Why viruses replicate only inside host cells?
- 7) What are Natural defenses which protects you from the disease?
- 8) How can you differentiate between gram positive and gram negative bacteria?
- 9) List some of the Factors which affecting the development of infection?
- 10) What is the difference between communicable disease and non-communicable disease?

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Question Seven:

(10 mark)

Note: “Only for the students who are not attended the midterm exam”:

(خاص بالطلبة الذين لم يتقدموا للامتحان النصفى فقط)

A) The duration of incubation period (I.P) depends on:

1. _____
2. _____
3. _____

B) Micro-organism grows & multiplies on certain requirements as:

- 1) _____
- 2) _____
- 3) _____

C) Why we study Micro-biology:

- 1) _____
- 2) _____
- 3) _____
- 4) _____

