

Course No: DMEC 1207  
Course Title: Microbiology  
Date: 20 /5/2014  
No. of Questions: (6)  
Time: 2hours  
Using Calculator (No)

University of Palestine



Final Exam  
2<sup>nd</sup> 2013/2014  
Total Grade: 60

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

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**Question One:**

**(12 marks)**

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

**1- The bacteria cocci which mostly occur in pairs are:**

- a. Streptococci
- b. Diplococcic
- c. Tetracocci
- d. None of these

**2- Nanometer (nm) equal:**

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

**3- ----- help the bacteria in the adhesion of the host cell:**

- a. Flagella
- b. Pilli
- c. Capsule
- d. Cell wall

**4- The capsid which is surrounding the virus made of :**

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

**5- The man who discovered Tuberculosis bacteria:**

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

**6- Bacteria can divide and replicate by:**

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

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**7- 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

**8- The side effect of antibiotic treatment could be:**

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

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

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

**10-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

**11- 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

**12- Viruses can replicate:**

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

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**Question Two: (6 marks)**

**White 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- \_\_\_\_\_ cells relatively small and lacks true nucleus.
- 5- \_\_\_\_\_ they have a role in bacterial protein synthesis.
- 6- \_\_\_\_\_ is a name of disease caused by salmonella.

**Question Three: (10 marks)**

**Put a mark (  $\checkmark$  ) or (  $\times$  ) in front of the following sentences:**

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

**Question Four: (5 marks)**

**A) Define:**

**1) Antiseptic:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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2) Infectious disease: \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Question Five:**

**(6 marks)**

Answer the following Questions:

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

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

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_
4. \_\_\_\_\_

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**Question Six:**

**(21 mark)**

**Answer (only seven) from the following Questions:**

- 1) Why viruses replicate only inside host cells?
- 2) What is the clinical picture of Typhoid Fever?
- 3) Mention the stages of viral replication?
- 4) Talk briefly about the epidemiology of cholera?
- 5) Compare between the primary infection and the secondary infection?
- 6) What is the source of infection of salmonella?
- 7) What are Natural defenses which protects you from the disease?
- 8) What are the Factors that affect the efficacy of disinfectants?
- 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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**Note: “Only for the students who are not attended the midterm exam”: (20 mark)**

(خاص بالطلبة الذين لم يتقدموا للامتحان النصفى فقط)

**A) List three of the Factors which affecting the Development of infection??**

1) \_\_\_\_\_

2) \_\_\_\_\_

3) \_\_\_\_\_

**B) What is the function Of?**

• **Flagella:** \_\_\_\_\_

\_\_\_\_\_

• **Spores:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

• **Mesosomes:** \_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

**C) List three of the natural defenses which protect you from diseases?**

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

\_\_\_\_\_

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**End of Questions**  
*Good Luck*