

Course No: DMEC 1207  
Course Title: Microbiology  
Date: 16 /9/ 2014  
No. of Questions: (6)  
Time: 2hours  
Using Calculator (No)

University of Palestine



Final Exam  
3<sup>rd</sup> 2013/2014  
Total Grade: 80

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

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**Question One:**

**(30 marks)**

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

**1- Bacteria use flagella to**

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

**2- 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

**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- Millimeter (nm) 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. Diplococcic
- c. Tetracocci
- 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 can divide and replicate by:**

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

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

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

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

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

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

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

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

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

**12- 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

**13- Viruses can replicate**

- a- outside the cells
- b- inside bacteria only

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- c. inside most eukaryotic cells
- e- both inside and outside cells

**14- The optimum temperature for growth of pathogenic bacteria to man is:**

- a. 42
- b. 37
- c. 66
- d. 75

**15- Mycology is the study of:**

- a. Bacteria
- b. Viruses
- c. Parasites
- d. Fungi

**Question Two:**

**(6 marks)**

**Write a scientific term for each of the following sentences:**

- 1- \_\_\_\_\_ the removal of contamination such as dirt.
- 2- \_\_\_\_\_ are the smallest size of the microorganisms.
- 3- \_\_\_\_\_ science deals with the study of The function of body organs
- 4- \_\_\_\_\_ discovered penicillin from the plant of mushroom.
- 5- \_\_\_\_\_ cells relatively small and lakes 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: (7 marks)**

**A) Define:**

**Microbiology:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**Infectious disease:** \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

**B) Micro-organisms grow & multiply on certain requirements as:**

- 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. \_\_\_\_\_

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**Question Six:**

**(20 mark)**

**Answer (only five) 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) How can you differentiate between gram positive and gram negative bacteria?
- 7) List some of the Factors which affecting the development of infection?
- 8) What is the difference between communicable disease and non-communicable disease?

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**End of Questions**  
*Good Luck*