Archive Lecture 1

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عبدالعزيز علي

Designed By : Raneem Dmour



1.which of the following correct match: A. Louis Pasteur—>Discovered Mycobacterium tuberculosis B.Redi—> As a tailor C. Ignaz Semmelweis—>discovered hygiene D.botanist launching the field of vaccine

2.All the following are true except:
A. Russian botanist -- virology
B. Redis -- disapproved spontaneous generation
C. Robert koch -- animalcules
d.botanist launching the field of virology

3.All of the following is true except : a. Robert Hooke : discovered animalcules b.pasteur: vaccine concept c.koch's postulate: one micro one disease d.botanist launching the field of virology

4.Not true about Gram -ve ? A.stain pink after gram stain B.(D-Ala)---(5-Gly)---(L-Ala) C.Inner most plasma membrane

5.all of the following true except : A.virus can be cultured on artificial media B.Bacteria reproduce by cell division C.Molds are multicellular D.Fungi can be cultured on artificial media Ans:A

Ans:C

Ans:C

Lecture 1

Ans:B

Ans:A

Archive Lecture 2

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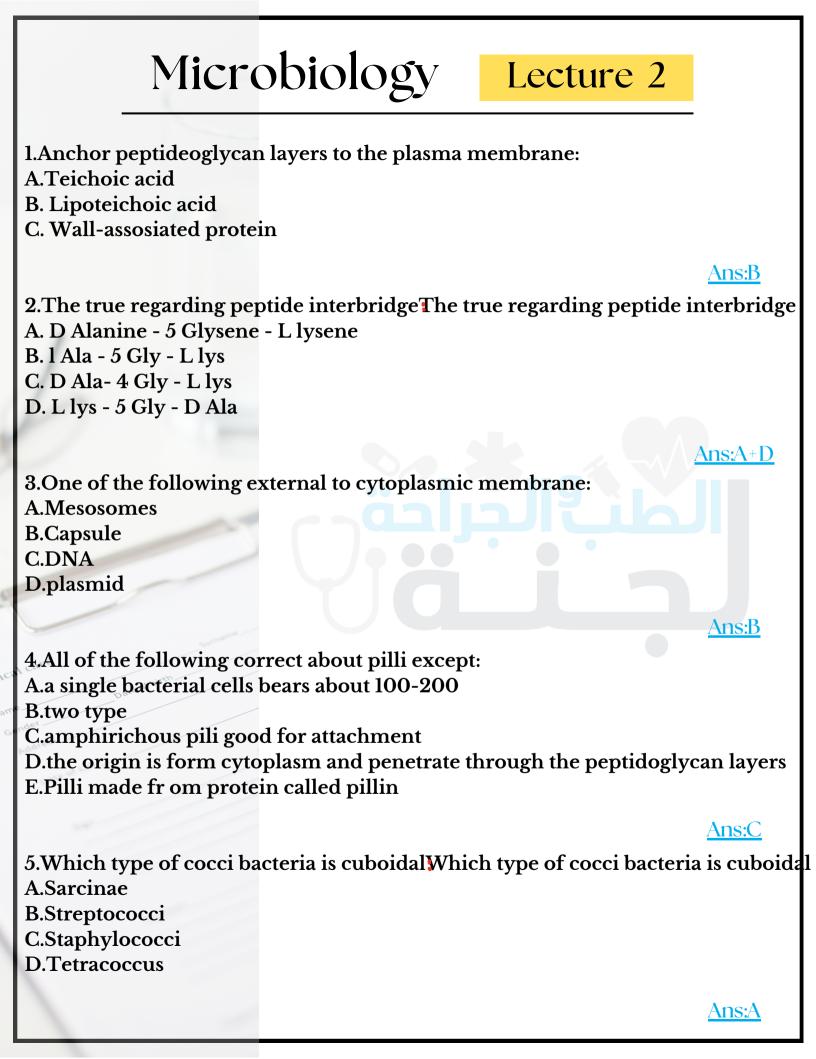
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6-All of the following is correct about pilli EXCEPT:

A- present on the surface of all gram negative bacteria.

B- each bacterial cell bear 100-500 pilli.

C- have no roll in motality.

D- there origin from cytoplasm and penetrate through peptidoglycan layer of cell wall.

Ans:B

Ans:B

Ans:B

Lecture 2

8-One of the following is internal to cell wall:

A-Flagella 🖊

B-Mesosomes

C-Pili

D-Caabout

7-INCORRECT about Flagella structure:

A- basal body, hook, filament from inside to outside

B- basal body embedded in peptidoglycan layer.

C-hook located outside the cell wall.

D-hook can rotate around itself.

E- flagella distribution varies in bacteria

P:llament Zacal Body

Archive Lecture 3

Corrected By : Banan Al-khawaldeh

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Microbiology Lecture 3

1.The way to get Carbon from Carbon droxide in the night a)chemoheterotrophs b)photoheterotrophs c)chemoautrterotrophs d)photoautrterophs	
2.Two bacteria are start growing in ideal growth environment, How many organisms after three growth cycles you will count? Select one : a.2 b)4 c)8 d.16 e.32	
 3. In which phase of bacterial growth are the number of growing equal the number of dying bacteria? Select one : a.Lag b.Log C.Stationary. d.Death. e. Eclipse. 	
 4. The average size of cells during the exponential phase of growth is: a) lesser than the lag phase b) greater than the lag phase c) none of these d) equal to the lag phase 5. The cell wall of gram-negative bacteria may contribute to the development of septic shock. Identity the component which is most associated with the induction of septic shock? Select one: a. Capsular protein b.Lipopolysaccharide c. Peptidoglycan d. Phospholipid e. Teichoic acid 	
6. Which of the following structures is never present in a Prokaryotic cell? Select one : a. Cell wall. b.Plasmid. C.Ribosome.	

- d.Membrane-bound nucleus.
- e. Cell membrane.

answer:b

answer : c

answer:d

Answer:c

Answer:a

Microbiology Lecture 3 7. Which of the following structures can pass from one bacterium another? Select one: a. Plasmid b.pilus C. Capsule d.Plasma Membrane e. Cell wall Answer:a 8.Most strains resists phagocytosis by: a) Capsule b) Cell membrane c) Cytoplasm Answer:a 9.One of the following bacteria have a lipopolysaccharides in its cell wall: a) gram-positive bacteria b) gram-negative bacteria c) streptococci Answer:b 10. The phase at which bacteria grow at a rapid rate: a) lag phase b) logarithmic phase c) stationary phase d) Death phase Answer:b 11.One of the following is internal to cell wall A-Mesosomes **B-Flagella** C-Pili **D-Caabout** Answer:a 12.Symbiotic: Answer: Bacteria grow in partnership with other living organism 13.All the following are true exept: A). Episome always found in cytoplasm B) Capsule may have antiphagocytic activity C) Mesosomes increase surface area D) Inclusion body save material E) Cytoplasmic membrane the same in gram positive and gram negative Answer: a

Microbiology Lecture 3

14. Which of the following is false: which of the following is false:	
 a. 0 antigen can act as endotoxins b. Lipid A stableite outer membrane structure c.Lipid A may cause septic shock 	
15.The best describe of lag phase is :	Answer: A
 a) maximum growth b) rate of cell growth equal rate of cell death c) initiation a divertment 	
c) initiation adjustment16. One of the following external to cytoplasmic membrane:	Answer : c
A.Mesosomes B.Capsule	
c.DNA 17.All the following are true exept:	answer: b
A. Pilli always present on the surface of Gram -veB) Capsule may have antiphagocytic activity	
 C) Mesosomes increase surface area D) Inclusion body save material E) Cytoplasmic membrane the same in gram positive and gram negative 	
18.Lag phase is called:	answer : a
A-adjustment phase EX B-death phase C-stationery	
B-death phase C-stationery D-maximal growth	answer:a

Archive Lecture 4

Corrected By : Banan Al-khawaldeh

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Microbiology Lecture 4	
1.The temperature that describes the maximal possible rate at which organisms grow:a) optimum temperatureb)Cardinal temperature	
c) maximum temperature d) minimum temperature	Answer:a
 2.The convenient temperature range for the mesophiles: a) 40-60 b) 25-40 c)60-80 	
3.Organisms that do not and may even be killed by oxygen:a aerobesb) facultative	Answer:b
 c) anaerobes d) Aerotolerant anaerobes 4. The breakdown of cellular constituents (cell wall, proteins ,fatty acids, 	Answer:c
nucleic acids called: a) Anabolism b catabolism	Answer:b
 5.Aerobic bacteria are? Select one : a.Only grow anaerobically b.Only grow in the presence of Co2 c. Crainarly anaerabe but can grow with CO2. d.Ordinarily aerobe but can grow in absence of 02. e. Only grow aerobicaly . 	Answer:e
 6.Most of pathogenic bacteria can live in the following temperature rate? Select one: a. Mesophile b.Pshycrophile. c. Thermophile. d.capnophils e. Hyperthermophile. 	
	Answer:a

Microbiology Lecture 4	
7.Extreme halophlies are characterzed by? Select one: a. Requiring high leveis of carbon for growth b.Requitng high evels of Nitrogen for growth C. Requiring high leve of Copper tor growth d. Requiring high evels of Zinc for growth	
e.Requiing high leveis of Salts tor growth	Answer:e
8.lack of antioxidant enzymes: A-Anaerobes b-Aerobes c-Microaerophile d-Macroaerophils	
	Answer:a
 9.0ne of the following is true regarding free radicalsOne of the following is true regarding free radicals a. Hydrogen peroxide break down by catalase only b. superoxide free radical inhibition by tow enzymes c. Hydrogen peroxide break down by peroxide only d. Superficial free radical inhibition by one enzyme 	
10.At which temperature extreme thermophiles grow ?	Answer:b
 11.When you culture bacteria without known requirement for oxygen, at the second day you found bacteria at the bottom and surface (at the surface more than bottom) the true concept of this bacteria is : 1) microaerophile 2) obligate anaerobe 3) obligate aerob 4) facultative anaerob 	: 80 and above
12. The Final electron acceptor in aerobic respiration: The final electron acceptor in aerobic respiration:A. NitrateB. Sulfate	Answer: 4
C. Oxygen	Answer:c:

13.When a bacteria grown in a test tube, it spread all over the tube with aggregation at the top of it , which kind of bacteria?

Answer: Facultative anaerobic

Lecture 4

14.Bacteria grow in human bodyBacteria grow in human bodyA. Mesophils & neutrophilsB.Mesophils & acidophilus

C.Mesophiles & halophiles

D.Acidophiles & halophiles

E.Acidophiles & neutrophiles

15. The vibrio cholerae is : The vibrio cholerae is :

A. Alkaliphile

B. Neutrophile

C. Acidophile

D. Halophile

17.Bacteria in a dark area and use carbon dioxide as a carbon source:Bacteria in a dark area and use carbon dioxide as a carbon source:
A.Chemoautotrophic
B.Photoautotrophic
C.Chemoheterotrophic

answer: a

answer:a

Archive Lecture 5

Corrected By : Banan Al-khawaldeh

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microbiology Lecture 5

 The name of the virus when it's genetic material congogates with bacterial ones: a)ProPhage b)Lytic phage 	
2.Bacteria makes scarlet fever:	er: a
Answer: Streptococcus pyoge	nes
3.Which give copy plasmid ? Answer: Conjuga	tion
 4. Type of plasmid give bacteria nutrients? Type of plasmid give bacteria nutrients? A.F+ plasmiad B. F-plasmid C.resistance plasmids D.col plasmid* 	
answe	r : d
5.What is the phage of Scarlet fever phenotype?	
answer:	T12
6.all of the following true except : virus can be cultured on artificial me	dia
 7.When viral genome integrated with bacterial genome, this process called when viral genome integrated with bacterial genome, this process called: A. Prophage B. Bacteriophage C. Transduction 	uia
C. Transdiction Answ	er:a
8.True about capsid :	
Answer: protect genome and determine sh	ape
9.Someone came to the clinical with clinical manifestation, he said to the	
doctor that he ate a canned food, what is the bacteria that associated with this?	
a) C.perfeingens b) C.difficile	
c) B.anthracis	
d) c. botulinum	
e) Mycobacterium	
Answ	er:d
10.Most strains resists phagocytosis by:	
a) Capsule	
b) Cell membrane	
c) Cytoplasm	er:a
	51.U

11 . Sale nich of the flowing structures can pass from one bacterium anothe

- a.Plasmid
- b. Pilus
- C. Capsule
- d.Plasma Membrane
- e. Cell wall

12. Which of the following is characteristic of the lytic cycle? Select one:

- a. Many bacterial cells containing viral DNA are produced.
- b. Viral DNA is incorporated into the host genome.
- C. The viral genome replicates without destroying the host.
- d.A large number of phages is released at a time
- e. The virus-host relationship usually lasts for generations.

13. Which of the followings is INCORRECT regarding bacterial genetics? Select one:

- a. Bacteria take up DNA from their environment through a process called transformation.
- b. The movement of DNA between bacteria by viruses is called transduction
- C. Conjugation is the direct transfer of DNA by bacteria via plasmids.
- d.Cloning is an artificial transformation.

answer : a

Lecture 5

Answer:d

Answer:e

Lecture 6+7

1: Infant meningitis.. Bacteria was gram negative diplococcoid : a)Neisseria meningitidis b) Neisseria gonorrhoeae

c) Haemophilus influenzae

2: Someone came to the clinical with clinical manifestation, he said to the doctor that he

ate a canned food, what is the bacteria that associated with this?

- a) C.perfeingens
- b) C.difficile
- c) B.anthracis
- d) C.botulinum
- e) Mycobacterium

3: All of the following about C.difficile , EXCEPT?

a) heavly attached to the colon

b) antibiotic associated colitis

c) Enterotoxin that damage intestine

d) major cause of diarrrhea in hospital

e) It's an opportunistic infection

10V⁺

4: Someone came to the clinical with wound infection, black skin and gas bubbles, what is the true statement? a) the causative agent is spore-forming, gram positive bacilli XXX

b) the causative agent is spore-forming, gram negative bacilli

c) the causative agent is nonspore-forming, gram positive bacilli

d) the causative agent is nonspore-forming , gram negative bacilli e) the causative agent is spore-forming, aerobic and gram positive bacilli 5: The following bacteria are interfering with normal muscle contraction? a)clostridium botulinum and clostridium tetani b)C.botulinum only c)C.tetani only d)C.difficile only e)C.botulinum and C.difficile

6: A boy with difficulty in breathing... Bacteria gram negative cocobacillus so the therapy will be for : a) Haemophilus influenzae b) Bordetella pertussis

7 : One of the following bacteria considered as a grape structure :
a) staphylococci
b) streptococci
c) spirochete
d) vibrio

e) Coccobacillus

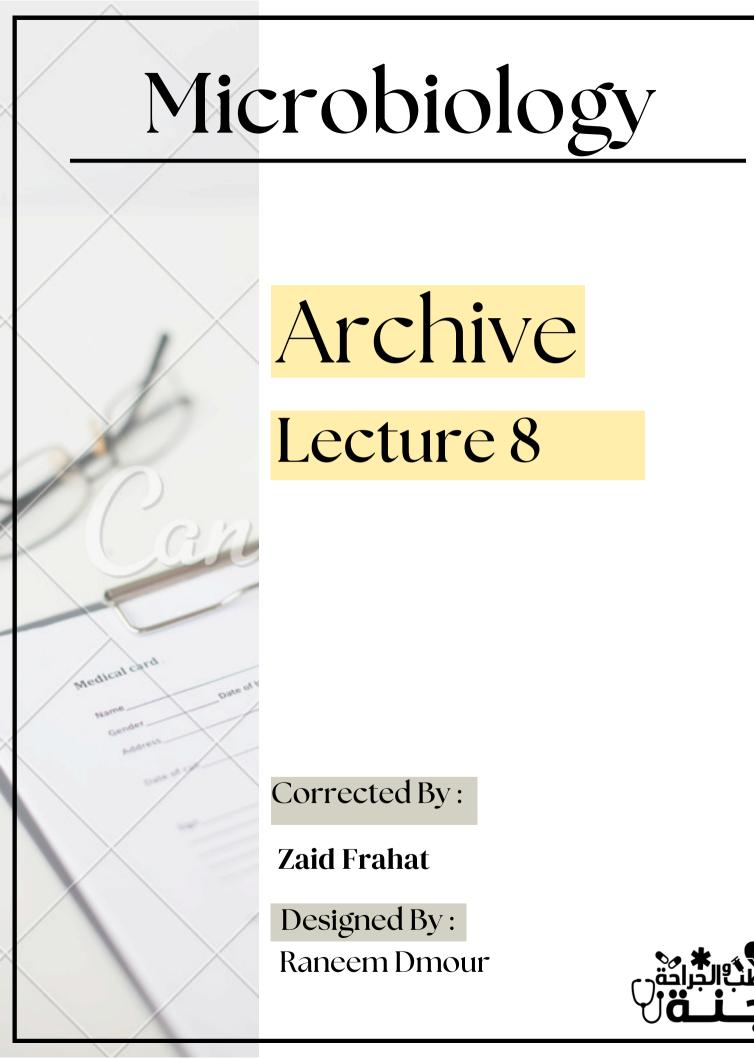
8.Have central spores? Answer:Anthracis



9.Comma bacteria is :
a. neutrophiles
b. alkaliphiles
c. psychrophiles
10.Which of the following is spore-forming bacilli:
A.S.aureus
B.L.monocytodenes
C. C.difficile
D. C.diphtheriae

Answer:

a
 d
 a
 a
 a
 a
 b
 b
 b
 a
 Anthracis
 c
 10. c



Microbiology Lecture 8 1-One of the following is INCORRECT regarding filtration A-used for vitamin sterilizing **B-antibiotics solution** C-0.46 pore size for bact D-0.02 pore size for critical sterilisation E-0.22 pore size for parenteral solutions Answer:d 2: The perfect percentage to be present in disinfectant and anticeptic of :alcohol is a) 100% b) 50% c) 70% d) 60% Answer:c 3- Items such as media, liquids, and instruments are usually autoclaved for 15 minutes at temperature a)100 C b)160 C c)121 C d)870 C Answer:c 4)A method which kills food pathogens without damaging the nutritional value or flavor a) Pasteurization b) Sterilization c) Incineration Answer:a

Microbiology Lecture 8 5) Items such as media, liquids, and instruments are usually autoclaved :at? Select one a)121°C For 15 minutes b)63°C for 30 minutes .c)72°C for 15 seconds . .d)100°C for 15 minutes

a)Using alcohol or iodine to reduce the pathogenic organisms on skin so they no .longer represent a pathogenic risk
.b)100% killing of all forms of microbial life on living tissue such as skin
.C)Subjecting living healthy tissue to ethylene oxide to kill spores
.d)Killing viruses on living tissue by temperature
.e)Using sodium hypochlorite to disinfect skin

7) One of these statements true regarding Distifection :

A-is the elemnation of chemical substance

B-is the elemnation of pathogens expect spores

C-is the elemnation of pathogens with spores

Answer: B

Answer:a

Lecture 9

1.In airborne precautions, which one is true : Answer: Pressure inside is less than outside

2.Which one of personal protective equipments use when deal with patients have tuberculosis? Answer: N95 mask

3.which important thing you should have when deal with patient has influenza ? A.gown B.surgical mask C-gloves



Answers:

- 1. Pressure inside is less than outside
- 2. N95 mask
- 3. b

Lecture 10

1: All of the following mechanisms will cause antimicrobial resistance except?

- A. Inactivation of the antibacterial agent
- B. Target hyperproduction
- C. Target bypass
- D. Sequence mutation
- E. Multiple mutations of the genes found in the mitochondria

2.which generation from cephalosporin treat pseudomonas?

Answer: 4th generation .

3. The stage of bacteria growth , in which penicillin works most effective:

- A. Lag phase
- **B. Exponential phase**
- C. Stationary phase
- **D.** Exponential and lag
- E. Death phase

Answer:

- 1. e
- 2. 4th generation
- 3. b



Lecture 11+12

1) Single-stranded DNA is the genetic material of?

a.Caliciviruses .b.Flaviviruses .C.Papillomaviruses .d.Parvoviruses .e.Herpesviruses

2) Viral envelope consists of? Select one:

.a. Viral glycoproteins and host lipids .b.Viral lipids and Host glycoproteins .c. Carbohydrates and host lipids d.Only host-cell-derived lipids .e.Only Viral glycoproteins

3)True about capsid :

Answer: protect genome and determine shape

4 - Neocleocapsid:

- A- Capsid + genome
- **B-** Capsid

5- The directly surrounding of Nucleic Acid in virus:

- A- Capsid
- B- Lipid envelope
- C- All of above

6) True about capsid : Answer: protect genome and determine shape

7: Virus contains lipid in it's virion:

- a) Parvoviruses
- b) Picornaviruses
- c) hepadnaviruses
- d) Herpes virus

8: What's incorrect about rhinovirus and poliovirus?

a)contain RNA polymerase

- b) have multiple antigenic types
- c) is not integrated



9: enzyme that copies the viral negative-sense RNA genome into a positivestranded copy:

- a) RNA polymerase
- b) Reverse transcriptase
- c) RNA polymerase I
- d) RNA polymerase II

10.When viral genome integrated with bacterial genome, this process called

- A. Prophage
- B. Bacteriophage
- C. Transduction

Answers:

- 1. d
- 2. a
- 3. Protect genome and determine shape
- 4. a
- 5. a
- 6. Protect genome and determine shape
- 7. d
- 8. a
- 9. a
- 10. a