

University of Al-Qadisiya

College of biotechnology

Dept. Medical Biotechnology



Exam: Microbiology

Stage: second

Time: Two hours

Date: 30/11/2017

First attempt

Final semester examination of first semester 2016-2017

Note : Answer Four questions :

Q1 / Answer the following branches :

(10 M)

A - Define all the following terms :

Cytopathic effect      - pseudoviruse      - normal flora      - virulence factor  
Complex medium

B: What are the mechanism resistance to antimicrobial drugs .

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Q2 / A - Describe the Growth of bacteria in an open environment .

(10 M)

B: Compare between the paired items:

Bacteria      vs      Fungi

Viroid      vs      virus

G<sup>+</sup> cell wall      vs      G<sup>-</sup> cell wall

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Q3 / Answer all the Branches:

(10 M)

A - Explain the structure of cell wall in fungi

B - Classified the viruses according to nucleic acid , envelop - size

C- Mention the shape of Bacteria and give example.

D- What are the group of bacteria are aged to the temperature? Give an example.

E- Enumerate the step of viral reproduction and draw it.

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Q4 / Choose best one answer of the following:

(10 M)

1- Chemo therapeutic refers to the chemical that are used to kill or inhibit the growth of .....

a- Bacteria      b- fungi      c- virus      d- parasite      e- all of them

2- Most antibiotic are produced by .....

a- staphylococcus      b- E-coli      c- Actinomycets      d- Parrovirus      e- all of them

3- ..... Inhibit the first stage of biosynthesis of Folic acid .

a- penicillin      b- Vancomycin      c- Tetracylin      d- Sulfonamid      e- Aminoglycosid

4- E.M.B media which used to growth of .....

a- S. aureus      b- S. pneumonia      c- E- Coli      d- S. Saprophytes      e- S.epedermeis





- 5- An example about the obligate anaerobic of Bacteria that .....  
 a- Staphylococcus      b- E-coli      c- Mycoplasma      d- Clostridium      e- S.mutans
- 6- Chemo therapeutic agent should be more active against the M.o. Less toxic to the human body because .....  
 a- reduce the side effects      b- affect on both bacteria and host      c- affect only host  
 d- all the above
- 7- Some bacteria e.g. .... can form protative endospores  
 a- streptococci      b- staphylococci      c- E- coli      d- diphtheria      e- Bacillus
- 8- ..... considers normal flora on vagina .  
 a- clostridium      b- S.mutans      c- Lactobacillus      d- E- coli      e- E-coli
- 9- The pathogenesis of gonorrhoea result to present of .....  
 a- pili      b- fimbriae      c- R-lactmal      d- cell wall      e- Biofilm
- 10- Sulfonamid inhibit the first stage of biosynthesis of .....  
 a- cell wall      b- protein      c- ribosom      d- folicacid      e- tetrahydrofolic

Q5 / Match the correct word from List " B " to List " A " : (10 M)

A	B
1- Exotoxin	Vancomycin
2- endotoxin	AIDS
3- B-Lactamase	Neisseria
4- Trimethoprime	cell wall
5- antibiotic	kanamycin
6- Histones	cl. Botulinum
7- Cell envelope	s.mutans
8- Dental plug	eukaryotic
9- Aminoglycosid	prokaryotes
10- virus	Nucleic acid

Best wishes

  
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