


1	2	3	4	5	6	7	8	9	10
E	D	A	C	A	B	E	C	A	E
11	12	13	14	15	16	17	18	19	20
D	D	A	B	E	B	B	C	A	F

1- Microbiology is the science that studies:	6- Gram positive bacteria is characterized by:
a) Bacteria	a) High lipid content
b) Fungi	b) An example is <i>Staphylococcus aureus</i>
c) Viruses	c) Presence of outer membrane
d) Only A and B	d) Only A and B
e) A, B, and C	e) None of the above
2- The shape of bacteria is determined by:	7- Broad spectrum antibiotic is active against:
a) Cytoplasm	a) Gram positive bacteria
b) Cell wall	b) Gram negative bacteria
c) Cell membrane	c) Fungi and viruses
d) Only A and B	d) All of the above
e) None of the above	e) Both A and B
3- Bacteria can move by:	8- A part of cell wall of bacteria that causes fever is called:
a) Flagella	a) LPS
b) Ribosome	b) Pyrogen
c) Pilus	c) Both A and B
d) Both A and B	d) Murein
4- The following shape of bacteria is:	9- Normal flora bacteria is bacteria that:
	
a) Rod shaped	a) That is present naturally in human
b) Streptococci	b) Is pathogenic
c) Cocci shaped	c) Present on the computer key board
d) Both A and B	d) All of the above
5- The following components are present in bacteria:	10- Bacteria are classified according to the composition of cell wall into:
a) Ribosome	a) Gram positive bacteria
b) Mitochondria	b) Gram negative bacteria
c) Capsule	c) Pathogenic and nonpathogenic bacteria
d) All of the above	d) All of the above
e) Both A and B	e) Both A and B

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11- The following is true about spores of Bacteria:

- a) Resistant to sterilization process
- b) Not formed by all types of bacteria
- c) Formed under unfavorable conditions of growth
- d) All of the above
- e) Both A and B

12- The following are targets of antibiotics in bacteria except:

- a) Cell wall
- b) Cell membrane
- c) Capsule
- d) Golgi apparatus
- e) DNA

13- Bacteria that cause spoilage of refrigerated foods is called:

- a) Psychrophiles
- b) Mesophiles
- c) Moderate thermophiles
- d) Extreme thermophiles

14- Bacteria that cause spoilage of Canned tuna Fish (تونة معلبة) is:

- a) Aerobic
- b) Anaerobic
- c) Thermophiles
- d) None of the above

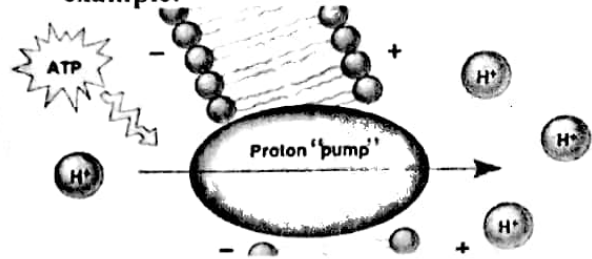
15- Bunsen burner flame is important in microbiology labs for:

- a) Sterilization of loop
- b) Provide sterile area of 20-25 Cm in radius
- c) For incubation of bacteria
- d) All of the above
- e) Both A and B

16- Water only but not the solute moves from low concentration of solute to high concentration in case of:

- a) Simple diffusion
- b) Osmosis
- c) Active transport
- d) Endocytosis
- e) Exocytosis

17- The transfer of " H^+ " in this figure is an example:



- a) Simple Diffusion
- b) Active transport
- c) Osmosis
- d) Endocytosis
- e) Exocytosis

***These are different unarranged steps of examination of bacterial film:

- a) Addition of Safranin.
- b) Taking bacterial samples by sterile loop
- c) Heat fixation
- d) Heat drying before staining
- e) Washing after staining
- f) Addition of cedar oil on the slide
- g) Heat drying after staining

18- Step number 3 is

19- Step number 4 is

20- Step number 7 is

With my best wishes



Dr. Mohammed Asaad

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