



NEWIC

1. Absence of all life

- A- clean
- B- aseptic
- C- sterile
- D-.....

2. Cytosine in DNA will bind to

- A- adenine
- B- thiamin
- C- guanine
- D-.....

3. Type of bacteria have no cell wall

Mycoplasma pneumonia

4. Bacteria is

Prokaryotes unicellular

5. Amoebiasis, malaria

Is caused by Protozoa

6. Obligate intracellular organisms are

Viruses

7. Bacterial mutation can happen by:

Deletion of a base

Addition of a base

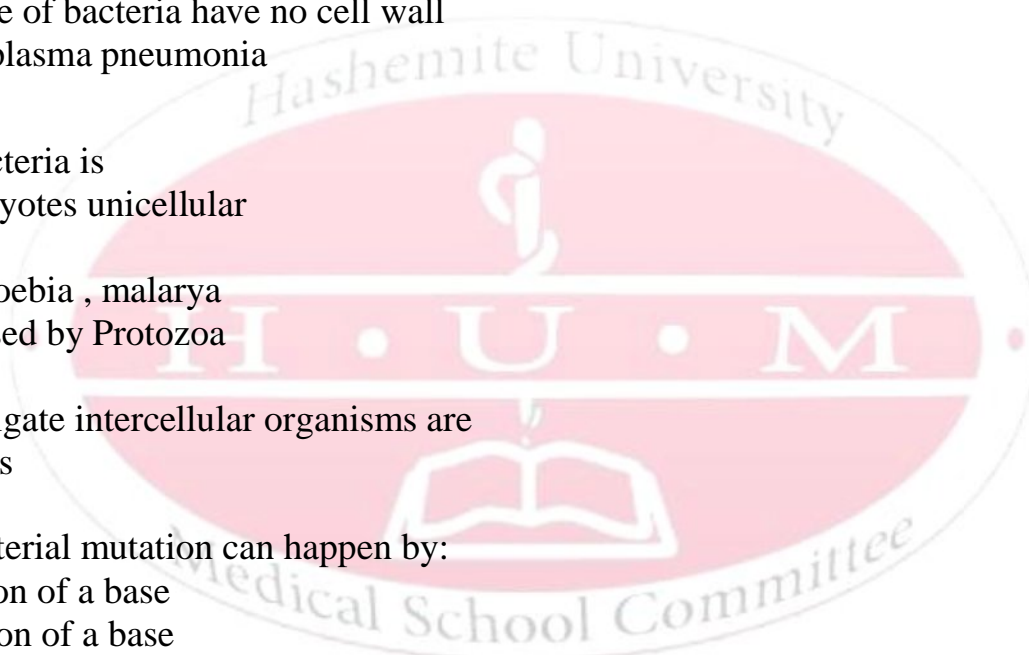
Base change

8. Bacteria which can use CO₂ by fixation is

Chemoautotroph

9. _____ are used on living tissues, and _____ are used on inanimate surfaces:

- a) antiseptics-disinfectants
- b) antiseptics-sterilants
- c) disinfectants-antiseptics
- d) disinfectants-sterilants



10. The making of RNA from DNA is
Transcription

11. Gene transfer in bacteria
Transformation + conjugation + transduction

12. Which of the followings is used for sterilization of heat sensitive objects:
ethylene oxide

13. The lowest concentration that inhibit the growth is
MIC (minimum inhibitory concentration)

14. Which of the followings can not be soon wirh light microscope:
viruses

15. The bacteria that has prolonged generation time is

- A- S. arues
- B- pneumonia
- C-.....
- D.....

16. Which of the following conditions ensures complete sterilization:
121 C-15 min

17. Beta lactam drugs :
Inhibit the newly formed linkages between NAM & NAM

18. Tetracyclene is
Broad spectrum antibiotic

19. All if these are in gram + except
Lipid A

20. All of these are in gram - except
Trichroic acid

21. Which of the followings is present in gram_positive but not gram-negative bacteria:
techoic acids

22. All of the followings are present in cojugation except:
bacteriophage

23. Which of these classes is refer to bacteria which has mid range temperature optima:
mesophiles

24. The phase which has growth rate= death rate :
stationary phase

25. All of the following are ways(forms) of gene transfer except:
gene mutation

26. Microaerphils require :
low level of O₂

27. The M.Os with capability of using CO₂ as a sole source using carbon fixation are known as:

- a)chemoheterotph
- b)chemoautotroph
- c).....
- d).....

28. Bacteria is :
unicellular , prokaryotes

29. The microorganism which cause malaria , giardiasis , ameobic :
protozoa

30. The bacteria that has prolonged generation time is

A- S. aureus

B- pneumonia

C-.....

D.....

Answer: mycobacterium tuberculosis

31. The first person who saw the living microorganism

anton van leeuwehoek

32. Plasmid is :

extrachromosomal piece of closes ,circular ,double-strand of DNA

33. Lyophilization is :

freeze drying

34. One of these is not mechanism to visualize antigen-antibody interaction :

1- agglutination

2- precipitaion

3- complement fixation

4- polymerase & nucleotide sequencing

(4)

35. A 23 years old woman was infected with E.coli in gallbladder.. the no. of infectious cells was 10..

stayed in lag phase for 20min

generation time 20min..

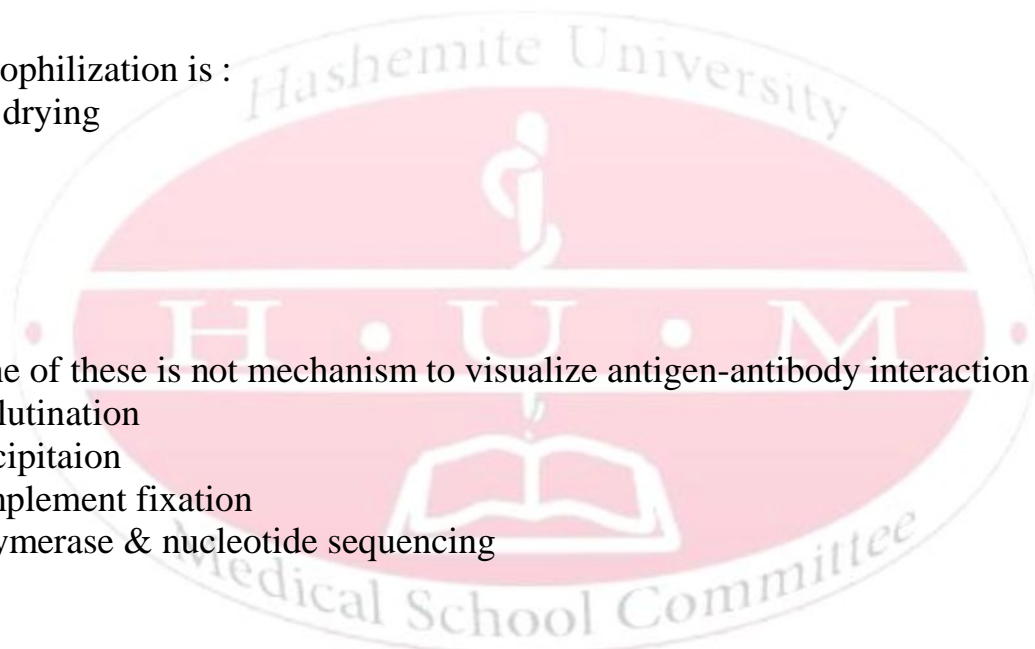
after 2hours of being in log phase how many E.coli are there now

a)40

b)80

c)160

d)320



36. Which one of these following mechanisms is used for microorganism identification : 1- culture methods 2- immunological assay3- molecular assay 4-biochemical assay

37. Endospore formation occur in:

- a)G-rods
- b)G+rods
- c)G- cocci
- d)G+cocci
- e)all of the above

38. One of these bacteria lives in temperature (20-45) ? mesophiles

39. Normal blood culture should show :

40. One of these drugs, inhibit the synthesis of essential metabolites is : sulfamethoxazole

41. Which of the following is the common to has endospores?

- A.Gram positive cocci
- B.Gram positive rods
- C.Gram negative cocci
- D.Gram positive rods
- E.all of the above

The answer is D

42. gel electrophoresis used to :

- a-separate proteins according to their molecular weight
- b- change in color
- c- sterilize the serum
- d-,,,,,

43. Which one is used to kill all microorganisms

- a- direct flaming
- b- autoclave
- c- pasteurization
- d- all of the above
- e- a and b only