

Ab.... †:

## #Biology

1. Collection of amino acids which are responsible to minimize vulnerability of being affected by virus are termed as.....

- A. Hybridomass
- B. Micoprotien
- C. Virogeny
- D. Interferons

2. During extractions of sucrose waste and leaves of sugar cane that left as residue

- A. Sacrose
- B. Maltose
- C. Molasses
- D. Fiber(Roupage)

3. which branch of biology is responsible in the study of collections of cells?

- A. Cytology
- B. Tissuology
- C. Anatomy
- D. Histology

4. Which statement is correct

- A. Rinderpest is medicine against pest(insect)
- B. The vaccine Rinderpest was scratched on the neck after injection
- C. Rinderpest does involve injection
- D. The vaccine Rinderpest was made through Genetic engineering

5. Which Biologist is known for his discover of 3.3 million years old humanoid fossils?

A. Brhane Asfaw

B. Zeresenay Alemseged

C. Melaku woreda

D. Beyene Petros

6. The honest assessment of limitation of procedure of our experiment is termed as.....

A. Hypothesis

B. Evaluation

C. Prediction

D. Acknowledgment

7. Which of the following protozoa have no locomotory structure?

A. Ameoba

B. Gardia

C. Trypanosomes

D. Plasmodium

8. among the following is vector transmitted disease is

A. Hepatitis B

B. Leprosy

C. Typhus

D. Cholera

9. Which of the following organism provides raw material for the producing of yoghurt.

A. Cow, camel, human

B. Camel, monkey, dog

C. Camel, horse, sheep

D. Cow, Human, Rat

10. Which protozoa is zooflagelated?

- A. Diatoms
- B. Paramecium
- C. Chlamydomonas(Dinoflagellate)
- D. Giardia

11. Which one is Nekton?

- A. Euglena
- C. Red Algae
- C. Brown Algae
- D. Fish

12. Which pair is not true about the cell wall of organisms

- A. Algae = cellulose cell wall
- B. Blue green algae= cellulose cell wall
- C. Diatoms = silica cell wall
- D. Fungi = chitinous cell wall

13. The response for the staining in Gram negative bacteria is not...

- A. The colour of safranin
- B. The colour of crystal violet
- C. Red
- D. All

14. What is peer review?

- A. Evaluation of a person's work done by friends
- B. Evaluations of a person's work done by other field professionals.
- C. ReEvaluation of a person's work done by himself after a year.
- D. Evaluations of a person's work done by others in the same profession

15. An apparatus used to sterilize materials in biological laboratory

- A. Incubator
- B. Autoclave
- C. Stop clock
- D. Dissecting ki

16. gp120 is

- A. Glycoprotien on the surface of HIV
- B. Glycophosphate on the surface of T-helper cell
- C. Glycoprotien on the surface of T-helper cell
- D. Glycophosphate on the surface of HIV

17. being HIV positive means

- A. A person has AIDS
- B. A person has in contact with HIV
- C. A person has a disease as a result of HIV
- D. A person has HIV antibodies in his/her blood

18. which statement is true

- A. Protozoa have no set pattern of causing disease
- B. Cell wall of Gram positive bacteria is thicker than that of Gram negative bacteria
- C. Some bacteria have no ribosome
- D. Spirochetes bacteria have spherical shape

19. Analysis of biological data by means of statistical or mathematical techniques

- A. Biostatistics
- B. Biometry
- C. BioStatistics
- D. Biogeography

20. Which is not release mechanism of viruse from host cell

- A. Chronic release
- B. lysogenic release
- C. Chronic release
- D. Budding release

21. How bacteriophage(Bacteria eating virus) attacks abacteria

- A. By phagocytosis
- B. By pinocytosis
- C. By intering to the bacteria
- D. By Haemolysis of bacteria

22. Fermenration is

- A. Only takes in the abcense of oxygen
- B. Can be aerobic or anaerobic
- C. Only occurs in ayeast
- D. Always produce alchol

23. Which one is not correct about agrobacterium tumefacens?

- A. It will not infect cereals
- B. Used as vector to carry gene
- C. It regularly infect plants
- D. None

24. 1spike is made of

- A. 3(gp120+gp41) sub units
- B. 2gp120+1gp41
- C. 1gp120+2gp41
- D. 1gp120+1gp41

25. Which of the following statement is correct

- A. Archea bacteria are the only group of organisms that can survive if the sun were not exist
- B. Every organism use water in liqiud form
- C. Tailor-made drug producing is one of the relevance of biology
- D. Preliminary research is the final stage of scientific experiment

26. Which antiretroviral drug interfere with the actions of HIVs protease enzyme preventing the assembly of new virus particles?

- A. Nevirapin
- B. Amprenavir
- C. Tenolavir
- D. Enfuvirtide

27. What is the difference between Binocular and monocular microscope?

- A. The former is compound microscope while the later is simple microscope
- B. The former has two lens system while the later has one lens
- C. The former have larger magnification power than the later
- D. All
- E. None

28. Having control condition in an investigation:

- A. Increase the validity ,reliability and accuracy
- B. It is used to isolate the factor we are investigating
- C. Increase validity and reliability of the experiment only
- D. None

29. Which one is true

- A. Treatment of disease caused by microscopic organisms is concerned under biomedical biology it is not concern of microbiology
- B. Using ethanol as a fuel is carbon-neutral activity
- C. most Algae cause disease directly

D. Ethanol produce toxic gas when use as fuel

30. Among the given alternatives listed below one is correct which is?

A. Producing ethanol from sugar cane requires further stages than from maize

B. Adapter is a component of fermenter which helps to maintain even temperature

C. Use of human waste in biogas generator yields relatively low quality biogas

D. One of the advantages of using Ethanol as a fuel is it uses more waste products than plant materials.

31. Theodolite is

A. For measuring height of slopes in the area and that of tree

B. For measuring slopes in an area

C. For measuring height of trees and to measure slopes in an area

D. For measuring slopes under water bodies

answers.

32. What groups listed below have true cell walls?

A. algae

B. mycoplasmas

C. Gram-positive bacteria

D. fungi

E. protozoans

33. Identify which statements are correct.

A. All bacteria have peptidoglycan in their cell walls.

B. All fungi have chitin in their cell walls.

C. All algae have cellulose in their cell walls

D. All protozoans have protein in their cell walls.

34. When comparing the types of viruses that infect bacteria, plants, and vertebrate animals, what trends appear from bacterial to vertebrate viral groups?

- A. more complex-type forms
- B. more enveloped forms
- C. fewer enveloped forms
- D. same number of DNA-containing forms
- E. fewer complex-type forms

35. Plaques are:

- A. clear areas in a lawn of cultured cells caused by virus infection.
- B. stained areas in a cell culture indicating cells infected by a virus.
- C. virus colonies on agar.
- D. bacterial colonies on agar

36. In order to grow, all microorganisms require:

- A. liquid water
- B. organic substances
- C. oxygen
- D. warm temperatures
- E. low pressure

Answer

#Answer

1. D interferons are proteins which are responsible to minimize susceptibility of being affected by a virus. G10

2. C molasses is the waste part including leaves of sugarcane that leaves as residue. G10

3. D G9 branches of biology 4. D G9 Professor Tilahun Yilma

5. B G9 Zeresenay Alemseged

6. B G11 Procedure of report writing around page.

Evaluation is honest assessment of limitation of procedures.

7. D plasmodium have no locomotory structure  
8. C Typhus is a vector transmitted disease by flea and lice

9. A CH<sub>4</sub> & H<sub>2</sub>

10. D Gardia

11. D Nekton means moving against water current eg fish ,duck,human etc..

Plankton moves by water current includes phytoplankton & zooplankton includes algae.

12. B blue green algae (cyanobacteria) have peptidoglycan cell wall

13. B gram negative bacteria do not retain colour of crystal violet rather they retain colour of safranin: pink (Red) colour .

14. D peer review is the process of evaluation of a person's work by others with the same profession

15. B autoclave

16. A

17. D HIV positive means a person has HIV antibodies to degrade antigens of a virus

18. A G12 protozoa have no set pattern of disease causing

19. B branch of biology

20. B lysogenic is not virus release mechanism. G12 virus

21. C because size of virus is too small it enters to the bacteria cell and starts to degrade by producing lysozyme enzyme

22. B Aerobic fermentation ° activated sludge waste treatment G12

23. D all the 1st three are correct about agrobacterium tumefaciens

24. A 1 spike is made of 3 gp120 & gp41 G12

25. B euglena is from algae not protozoa

26. B G12

27. E Both binocular and monocular have same magnification power two lens system and both are compound microscope the only difference is that 2 & 1 eyepiece lens respectively

28. B having control condition in an experiment helps to isolate the factor we are investigating and to increase the validity of an experiment but it does not increase reliability of the experiment

29. B using ethanol as a fuel is carbon neutral activity (no carbon dioxide emission) all the rest are false

30.

Enjoy

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