Biology work sheet for grade 11th [A-D]

Choose the best answer for the following question items

1.The presence of membrane bounded organelles is a characteristics of

A. all cells B. prokaryotic cells C. bacteria D. eukaryotic cells

2.The cell wall of prokaryotic cells is made of; A. cellulose B. peptidoglycan C. chitin D. phospholipid

3.The oxidation of 10 molecules of NADH& 10 molecule of FADH in the electron transport chain yield respectively.

A.3& 2ATP B.30& 20 ATP C.20 &20 ATP D. 10&10ATP

4. Reduced FAD is produced in A. glycolysis B. link – reaction C. Krebs's cycle D. ETC

5.The DNA in bacteria is not, A. linear B. continuous loop C. circular D. Present at all

6.During centrifugation technique, organelles are separated according to their; A. Volume B, Shape C. Mass D. Functions

7.During osmosis water does not move from A. hypotonic solution to hypertonic solution B. Dilute to concentrated solution E. high to low osmotic pressure C. higher to low of water potential[osmotic potential] D. less concentrated solution to more concentrated solution

8. Which includes membrane bounded organelles? A. mitochondria & ribosome B. Chloroplast & peroxisome C. peroxisome & nucleus D. mitochondria & lysosome

9.What happens to the animal cell when placed in hypotonic solution?

A. swell& burst B. Swell & become turgid C. loss water &flaccid D. plasmolysised

10. The process by which cells take in fluid by means of vacuole & vesicles is A. phagocytosis B. pinocytosis C. endocytosis D.exocytosis

11. A solution having low water potential than the cell is;

A. hypertonic B. hypotonic C. Isotonic D. plasmolysis

12. The movement of some cellular products out of the cell is ;

A. phagocytosis B. pinocytosis C. endocytosis D. exocytosis

13.Which statement is not true

A. Pure water has no the highest possible osmotic potential

B. weak solution has low concentration of solutes.

C. a weak solution has low osmotic pressure & high osmotic potential

D. strong solution has high osmotic pressure & low osmotic potential

14.For animal cells when placed in hypertonic & hypotonic solution

the condition is called _& _ respectively

15.Which one is not true?

A. in CAM photosynthesis the C4 stage & the Calvin cycle are separated.

B. The chloroplast in the bundle sheath cells of C4 plants are

an adaptations, because of they do not contain thylakoids

C. During photorespiration of C3 plants low conc. causes Rubisco to

form more GP by combining O_2 with RUBP.

D. In the light independent reaction, NADPH is used to oxidase GP to TP.

Write the correct answer for the f/f questions

16. Both mitochondria & chloroplast have their own _____ .

17.why phospholipid bilayer has fluid property?

18. Write the function of cell wall to the plants.

19. What happen if the cell becomes larger?

20. Write the two ways in that all cells are similar?

21. Write the main functions of glycoproteins.

22. The integral protein that are used to transport large molecules through the membrane

by facilitated diffusion or active transport is called___.

23.Why all particles cannot pass the plasma membrane without aiding?

24. What are the functions of Golgi-body?

25. Write the function of smooth endoplasmic reticulum.

26. Write the at least three functions of cell wall in plant cell?

27. Write the five organelles that have double membrane bounded?

28.A fresh potato was placed in sugar solution of 30%, 10%, 20% ,& 5% which gains the highest percentage of weight?

29. __is the living portion of a cell & includes the cell membrane, cytoplasm & nucleus.

30. Write the organelles commonly found in both plants & animals.

31. the products of light A. dependent & B. independent reactions

32. Write some adaptations of C_{3}-plants for photosynthesis

33.write the three organelles that photorespiration occurs?

34.The correct step of C4 plants path way is;

35.Write the steps of photophosphorylation when C3 plants of stomata closed & O_2 amount is higher than Co_2

36. the steps of Calvin cycle that occurs in C3-plants of normal rxn

37. The Calvin cycle C3,C4 & CAM occurs in ___,___ & ___respectively.

38. The 1^{st} electron donor [source of electron]for cyclic & non- cyclic photophosphorylation are ; ___ &___ respectively.

39. Where does the light dependent reaction occur?

40.The chemical substances by which chlorophyll absorbs light energy is called __ & what are organized units of it?

41. The light harvesting clusters of complex pigment molecules are called___

42.Write the major stages of the Calvin cycle?

43. Write inputs & out puts of

A. glycolysis B. link reaction C. Krebs cycle