EXERCLSE-1

CELL WALL, CELL MEMBRANE. GLYCOCALYX

1. Muramic acid is present in cell walls of : -
(1) Bacteria and blue – green algae
(2) Green algae
(3) Yeast
(4) All fungi

2. Growth of cell wall during cell elongation takes place by: -
(1) Appositon
(2) Intussusception
(3) Both 1 and 2
(4) Super position

3. Plasmodesmata are : -
(1) Pores in cell wall
(2) Pores in cell membrane
(3) Protoplasmic connections
(4)1and 2 both

4. Which element mainly occurs in middle lamella: -
(1) Ca (2) Mg (3) NA (4) K

5 Lignified cell wall is characteristic feature of : -
(1) Vessels (2) Sieve cells
(3) Sieve tubes (4) All the above

6 Cell membrane have how many enzzymes :
(1) 20 (2) 30 (3) 40 (4)Morethan 50

7. Cell membrane is composed of : -
(1) Proteina and cellulose
(2)Protins and phospholipids
(3)Proteins ans carbophydrates
(4) Proteins , phospholipids and some carbohyrates

8. Which of the following is main enzym e of plasma membrane: -
(1) TPPase (2) ATPase
(3) peptidyl trnsferase (4) Catalases

9. Percentage of intrinsic proteins in the total proteins of plasma membrane: -
(1) 70% (2) 20% (3) 10% (4) 90%

10. Cell wall was discovered by : -
(1) Robert brown (2) Malpighi
(3) Robert Hooke 4) Nageli

11. Cell wall is : -
(1) Dead andimpermeable
(2) Dead and permeable
(3) Living and impermeable
(4) Living and selective

12. Carbohydrates are present in the plasmalemma inn the form of : -
(1) Hemicellulose
(2) Cellulose
(3) Starch
(4) Glycoprtein

13. Dynthesis of cell wall material takes place in : -
(1) Dictyosome (2) Mitochondna
(3) Lysosome (4) E. R.

14. Tonofibrils are characteristic of which juntion : -
(1) desmosomes (2) Plasmodesmata
(3) Gap junction (4) Tight junction

15. Acccording to fluid mosaic mode (proposed by Singer & Nicolson) plasma membrane is composed of : -
(1) Cellulose, hemicellulose
(2) Phospholipid and integrated protein
(3) Phospholipid , extrinsic protein, intrinsic protei
(4) Phospholipid and hemicellulose

16. Trus is composed of : -
(1) Suberin (2) Chitin
(3) Cutin (4) Lignin

17. Carbohydrates which present in th cell membrane take part in: -
(1) Transport of substance
(2) Cell recognition
(3) Attachment to microfilament
(4) Attachment to microtubules

18. Plasma membrane is fluid strcture due to presence of : -
(1) Carebohydrate
(2) Lipid
(3) Glyco protein
(4) poly saccharide

19. The most abundant lipid in cell menbrane is : -
(1) Cutin (2) Cholesterol
(3) Steroid (4) phospholids

20. Cell wal of lignified cell is : -
(1) Semipermeable and dead
(2) Permeable and living
(3) Impemeable and dead
(4) Impermeable and living 21. The chemical substance abundantly present in middle lamella is : -
(1) Cutin (2) chitin (3) Lognin (4) pectin

22. In which cell –surface junction fused membrane reveals five –layered strucre: -
(1) Desmosomes
(2) Zonaoccludence
(3) Gap-junction
(4) Plasmidesmata

23. Which type of cell surface junctions abundantly occur in epithelial tissues: -
(1) Nexus (2) Desmosomes
(3) Zona occludence (4) plasmodesmata

24. The middle lamella is composed of : -
(1) Pectates (2) cellulose
(3) Lignin (4) Proteins

25. Cell wall is present in: -
(1) Plant cells (2) procaryotic cell
(3) Algal cell (4) all the above

26. Plasma membrane is : -
(1) Selectively permeable
(2) Pereable
(3) Impermeable
(4) Semipermeable

27. Amphipathic molecule in plasma membrane is : -
(1) Protein (2) Carbohydrates
(3) Phosphlipids (4) All the above

28. The average thickness of plasmemembrane was proposed by: -
(1) 70A (2) 75-100A
(3) 100-150A (4) 200A

29. Unit membrane model of plasmembrane was propsed by: -
(1) Robertson (2) Singer
(3) Danielli (4) Robert lamella

30. Pit membrane of simple pit is formed by:-
(1) Secondary cell wall
(2) Middle lamella
(3)primarycell walll (4) Plasma membrane

31. Cell wall is made up of : -
(1) Several layers of microfibils
(2) Several micellae
(3)Cellulosemolecules
(4)Glucosemolecule

32. Term plasmodesmeta was first used by: -
(1) Leuwenhock (2) De duve
(3) Strabuger (4) Porter

33. primary cell wall formed by: -
(1) Intussusception
(2) Apposition
(3) Intussusception & lignification
(4) mineralization

34. The cells are held together by a Ca-pectate layer called: -
(1) Primary cell wall
(2) Secondary cell wall
(3) Middle lamella
(4)Tertiarycell wall

35. Cell wall of prokarytes is made up of : -
(1) Chitin (2) Cellulose
(3) Glucose amine (4) Mucopeptide

36. Butter Sandwich model of plasma membrane was proposed by : -
(1) Davson and Daniellli (2) Robertson
(3) Singer and Nicolson (4) Benson

37. Selective permeabilty occurs in –
(1) Cell wall (2) Plasma membarne
(3) Cytoplasm (4) None of these

38. The singer's Model of Plasma membrane differs from the Robertson's model in the-
(1) Number of lipid layers
(2) Arranement of proteins
(3) Arrangement of lipid layers
(4) Absence of protein layers

39. Ingestion of solid food by plasma membranes is called –
(1) Endosmosis
(2) Pinocytosis
(3) Cytokinesis
(4) Phagocytosis

40. Plasma membrane exhilbits for external substances-
(1) Diffusion
(2) Osmosis
(3) Exocytosis
(4) Endosmosis

41. Plasma membrane exhibits for external substance-
(1) Impermeabiltiy
(2) Semi permeabiltiy
(3)Permeabiliy`
(4)SelectiveSemipermeability

42. Endocytosis includes-
(1) Phagicytosis
(2) Pinocytosis
(3) Both
(4) None

43. In fluid mosaic model of plasma membrane : - **[CBSE-2002]**
(1) Upper layer is ono –polar and hydrophilic
(2) Polar layer is hydrophobic
(3) Phospholipids form a bimolecular layer in middle part
(4) Proteins form a middla layer

44. Plsmodesmata connections help in : -
(1) Cytoplasmic streming .
(2) Synchronous mitotic divisions.
(3) Locomotion of unicellular organisms.
(4) Movement of substances between cells.

45. According to widely acceteed " fluid mosaic model" cell membranes are semi-fiuid , where lipids and integral proteins can diffuse randomly . in recent years , this model has been modified In several respects , In this regard , which of the following statements is incorrect-
(1) proteins an also undergo flip –flop movements in the lipid bilayer **[CBSE 2005]**
(2) Many proteins renian completely embeded within the lipid bilayer
(3) Proteins in cell membranws can travel within the lipid bilayer
(4) Proeins can remain confined within certain domains of the membranes

46. Which one of the following is not a constituent of cell menbrane?
(1) Cholestreol (2) Goycolipids
(3) Proline (4) Phospholids