NTSE QUESTION BANK TOPIC –CELL

1.In th	e plant	cell, t	this l	ayer	is	present	nearest	to	the p	lasma	mem	brane
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- a. Tonoplast
- b. Middle lamella
- c. secondary wall
- d. primary wall
- 2.Plasma membrane is made up of
 - a. A protein, a lipid and a cellulose layer
 - b. Bimolecular lipid layer surrounded by protein layers
 - c. A protein layer between two lipid layers
 - d. A lipid layer between two protein layers
- 3.Cytoplasm without cell organelles is termed as_____
 - a. Cytosol
 - b. Cyclosis
 - c. Lymph
 - d. Blood
- 4. The association of more than one ribosome with a single molecule of mRNA complex is called as
 - a. Polypeptide
 - b. Polysome
 - c. Polymer
 - d. Polysaccharide
- 5. The cells involved in large amounts of lipid synthesis do not possess this organelle on the endoplasmic reticulum
 - a. Mitochondrion
 - b. Ribosomes
 - c. Golgi apparatus
 - d. lysosome
- 6.Microfilaments are made up of
 - a. Fat
 - b. Protein
 - c. Carbohydrates
 - d. Nucleic acid

7.It actively synthesized rRNA
a. Nucleoplasmb. Nucleolusc. Nucleusd. all of the above
8. Who was the first person to observe the chromosomes?
a. Flemingb. Waldeyerc. Strasburgerd. Hofmeister
9.Cell Membrane is composed of
a. Proteins and celluloseb. Proteins and Phospholipidc. Proteins and carbohydratesd. Proteins, Phospholipid and some carbohydrates
10. Which of the following organelle takes part in the secretion?
a. Cytoplasmb. Ribosomesc. ER compartmentsd. Golgi apparatus
11.Cell Wall is present in
a. Plant cellb. Prokaryotic cellc. Algal celld. All of the above
12. Name the complex polysaccharide which does not synthesize in the Golgi apparatus?
a. Starchb. Hemicellulosec. Glycosaminoglycansd. Pectins
13. Which of the following are the functions of lysosomes?
a. Autolysisb. Autophagyc. Digestion

d. All of the above

14. Which of the following organelle is called the perinuclear dense bodies?
a. Nucleolusb. Lysosomesc. Peroxisomed. All of the above
15. Cristae in mitochondria serves as sites for
a. oxidation reduction reactionb. protein synthesisc. macromolecules breakdownd. flavoproteins are phosphorylated
16.Pick the incorrect statement
 a. mitochondrial DNA is known as mtDNA b. mitochondria are the powerhouse of the cell c. mitochondria are the site for Calvin cycle d. mitochondria are the site for Krebs cycle and oxidative phosphorylation
17.Mitochondrial DNA is
 a. simple single stranded circular DNA molecule b. simple double stranded circular DNA molecule c. simple double stranded linear DNA molecule d. simple single stranded linear DNA molecule
18.The term chromosome was coined by
a. Suttonb. Boveric. Waldeyerd. Hoffmeister
19. Nucleolus is the site of formation of
a. Spindle fibersb. Ribosomesc. Peroxisomesd. Chromosomes
20. Factory for synthesis of sugars in autotrophic eukaryotes
a. Mitochondriab. Chloroplastc. Ribosome

d. Endoplasmic reticulum

21. When green tomatoes fruits turn to red, then
a. new chromoplasts are formedb. chloroplasts are disintegrated and get converted into chromoplastsc. chromoplasts are changed to chloroplastsd. none of these
22. This is a correctly matched pair
 a. Lysosomes – involved in synthesizing amino acids b. Microsomes – take part in photosynthesis c. Centrosomes – Provides enzymes essential for digestion d. Endoplasmic reticulum – has a role in the formation of a new nuclear membrane while cell divides
23. The transfer vesicle from RER fuse with which region of Golgi complex
a. Protein armsb. Medialc. Cisd. Trans
24. How many autosomes are present in a human being?
a. 20 pairsb. 22 pairsc. 23 pairsd. 44 pairs
25.In the plasma membrane, lipid molecules are arranged in
a. head parallelb. alternatec. scatteredd. series
26. Plasmolysis occurs due to-
a. Absorptionb. Endosmosisc. Osmosisd. Exosmosis
27. Middle lamella is made up of
a. calcium sulphideb. calcium pectate

c. calcium carbonated. calcium chloride

- 28. In germinating seeds, fatty acids are degraded exclusively in the
 - a. Glyoxysomes
 - b. Proplastids
 - c. Peroxisomes
 - d. Mitochondria
- 29. The chromosomes in which centromere is situated close to one end are
 - a. Acrocentric
 - b. Metacentric
 - c. Telocentric
 - d. Submetacentric
- 30. Which of the following structures between two adjacent cells is an effective transport pathway?
 - a. Plasmalemma
 - b. Endoplasmic reticulum
 - c. Plastoquinones
 - d. Plasmodesmata