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DEPARTMENT OF ZOOLOGY

Title of the paper-Cell and Developmental Biology

SET-I

- 1) The region in prokaryotic cell where double standard single circular DNA he is present is called as
 - a) nucleoid
 - b) Nucleus
 - c) Endoplasmic recticulum
 - d) lysosome

- 1) Ribosome Eukaryotic c e l l aur
 - a) 80 S
 - b) 70s
 - c) 50s
 - d) 40s

- 2) Eukaryote are
 - a) unicellular
 - b) multicellular
 - c) bhoot
 - d) neither

- 3) Bacteria is what kind of cell
 - a) eukaryotic
 - b) prokaryotic
 - c) both
 - d) none

- 4) What type of cell has a nucleus?
 - a) eukaryotic
 - b) prokaryotic
 - c) both
 - d) 4)none

- 6)Plants and animals' cells are example of
 - 1) eukaryotic
 - 2) prokaryotic
 - 3) both
 - a) 4)none

7) Bacteria are unicellular

- a) a) False
- b) b) true

8) Which type of cell contains ribosomes

- a. eukaryotic
- b. prokaryotic
- c. both
- d. none

9) What type of cell are humans made up of

- a. eukaryotic
- b. prokaryotic
- c. both
- d. none

10) An example of a eukaryotic cell is all except

- a) Plants
- b) animal
- c) bacteria
- d) fungi

11) A prokaryotic cell is characterized by

- a) Presence of distinct chromosomes
- b) absence of chromatin
- c) Absence of nuclear membrane
- d) Presence of distinct nuclear membrane

12) Protoplasm found inside the nucleus is known as

- a) Amyloplast
- b) Nucleoplasm
- c) Cytoplasm
- d) Leoplast

13) Largest subunit of a prokaryotic ribosome is

- a) 40s
- b) 60s
- c) 30s
- d) 50s

14) A eubacterial cellular component that resembles a eukaryotic cell is

- a) Cell wall
- b) plasma membrane
- c) nucleus

d) ribosome

15) Intracellular Compartments do not occur in

- a) Prokaryotes
- b) lower plants
- c) eukaryotes
- d) higher plants

16) Which of the following statements best describe the chemical composition of plasma membrane

- a) Plasma membrane is composed of two layers one layer of phospholipids and one layer of protein
- b) Plasma membrane is composed of equal number of phospholipids proteins and carbohydrates
- c) Plasma membrane is by layer of protein with associated lipids and carbohydrates
- d) Plasma membrane is bilayer of phospholipids with associated protein and carbohydrate

17) Glycolipids in plasma membrane are usually located at

- a) Outer leaflet of plasma membrane
- b) inner leaflet of plasma membrane
- c) Distributed in both inner and Outer layer of plasma membrane
- d) cannot be predicted it vary according to cell type

18) liquid bilayer model of plasma membrane was proposed by

- a) nicholson
- b) singer
- c) Davison and Robertson

19) Fluid mosaic model was proposed by

- a) Nicholson singer
- b) Davison and Robertson

20) Cell..... unit of Living Organism

- a) Fundamental
- b) structural

21) Sandwich model was given by

- a) Daniel and Davson
- b) nicholson
- c) singer
- d) Davison and Robertson

22) The membrane protein that entered through both side of liquid while there are

- a) Intrinsic protein
- b) Extrinsic
- c) transmembrane

23) Distinction of prokaryote and eukaryote is based on

- a) Plasma membrane
- b) Nucleus
- c) DNA

24) Cell organelles are embedded in

- a) Protoplasm
- b) nucleolus
- c) nucleoplasm
- d) cytoplasm

25) Plasma membrane is

- a) Non selective area
- b) selective barrier
- c) impermeable
- d) cellulose made up of

26) Model of plasma membrane proposed by Singer and Nicolson differ from Robertson model

- a) Arrangement of protein
- b) amount of protein
- c) Arrangement of lipid layer
- d) Number of lipid layer

27) Rough endoplasmic reticulum are found in the cell which are actively synthesizing

- a) Proteins
- b) Lipids
- c) Carbohydrates..

28) Directive network which transfer the cytoplasm is known as

- a) endoplasmic reticulum.
- b) Peroxisome
- c) Nucleus
- d) plasmamembrane

29) Granular structure found attached with endoplasmic reticulum are

- a) Ribosomes
- b) Proteins
- c) lipids

30) Detoxification is carried out in

- a) smooth endoplasmic reticulum
- b) rough endoplasmic reticulum
- c) cytoplasm
- d) nucleus

31) Lumen of Endoplasmic Reticulum act as a passage for

- a) secretory products
- b) toxic products
- c) proteins
- d) lipids

32) Endoplasmic reticulum composed of following kind of structure

- a) cisternae, vesicles, tubules
- b) Ribosome proteins
- c) Vacuoles, centrioles

33) Important site for formation of glycoprotein and glycolipid is

- a) Lysosome
- b) Vacuole
- c) Golgi apparatus
- d) Plastid

34) In Golgi Complex the structure which is the functional unit is

- a) cisternae
- b) thylakoid
- c) archeoplasm
- d) cristae

35) Mitochondria do not occur in

- a) Bacteria
- b) green algae
- c) brown algae
- d) red algae

36) The size of molecules which can pass through the plasma membrane in

- a) 4-15 Å
- b) 25-80 Å
- c) 8-10 Å
- d) 10-35 Å

37) Liquid food drinking is

- a) Pinocytosis
- b) pinocytosis
- c) phagocytosis

38) Cellular organelle containing hydrolytic enzymes are called

- a) oxizone
- b) MESOSOMES
- c) lysosome
- d) ribosome

39) Golgi Complex resemble

- a) Smooth endoplasmic reticulum
- b) rough Endoplasmic reticulum
- c) Nuclear envelope
- d) none

40) The membrane of Golgi Complex present place forming face called

- a) Transmembrane
- b) cis membrane
- c) membrane membrane

41) Acid hydrolyse are found in the organelle called

- a) lysosome
- b) Smooth endoplasmic reticulum
- c) rough Endoplasmic reticulum
- d) Nuclear envelope

42) The organelle that carried out Protein synthesis is

- a) ribosome
- b) lysosome
- c) Smooth endoplasmic reticulum
- d) rough Endoplasmic reticulum
- e) Nuclear envelope

43) The term mitochondria was coined by

- a) Partner
- b) Reynolds
- c) Banda

44) Who discovered ribosome in animal cells

- a) Watson
- b) totem
- c) pallod

45) Lysosome are also called as

- a) Suicidal bags

46) The proteolytic ribosome are

- a) 80 S
- b) 70s
- c) 50s
- d) 40s

47) Lysosome where first described by

- a) christen de duve
- b) Watson
- c) totem
- d) pallod

48)Function of ribosome is

- a) protein synthesis
- b) dna replication
- c) rna synthesis

49)Inner mitochondrion membrane act as site for

- a) Protein synthesis
- b) Oxidation reduction reaction
- c) Breakdown of macromolecules
- d) All of them

50)Main Function of lysosome is

- a) Secretion
- b) respiration
- c) extracellular digestion
- d) intracellular digestion

51)Acrosome of sperm is formed from

- a) Nucleolus
- b) Golgi complex

52)Golgi Complex was first discovered by

- a) Camilo golgi

53)Golgi Complex of absent in of

- b) RBC
- c) Neuron cell
- d) Intestinal cell

54)Plant cell Golgi Complex called as

- a) Dictyosomes

55)During spermatogenesis Golgi apparatus give rise to

- b) acrosome
- c) lysosomes
- d) peroxisomes

56)Ribosome where first observed by

- a) cloudy

b) Camilo golgi

57)The term ribosome was used by

- a) palad
- b) cloudy
- c) Camilo golgi

58)F1 particles are also called as

- a) elementary particles
- b) Fernandez-moran particles

59)Formation of ATP from ADP is called

- a) phosphorylation
- b) respiration
- c) osmoregulation

60)F1 particles are present in

- a) inner mitochondrial membrane
- b) outer mitochondrial membrane

61)Mitochondria are absent in

- a) plant cell
- b) animal cell
- c) bacterial cell

62)cell exhibit polymorphism.

- a) lysosomes
- b) nucleus
- c) mitochondria

63)Lysosome with p h a g o s o m e form

- a) p h a g o l y s o m e s
- b) nucleus
- c) peroxisomes

64)lysosomes which Attack intracellular organelles and digest them are called

- a) a u t o p h a g I Vacuoles

65)The powerhouse of cell is

- b) Chloroplast
- c) mitochondria

- d) Golgi Complex
- e) nuclear

66) Polysome is a chain of

- a) Pinosomes
- b) ribosome
- c) phagosome
- d) lysosome

67) Endoplasmic reticulum is involved in synthesis of

- a) Carbohydrates
- b) lipids
- c) nucleic acid

68) The cell organelle that provides structure and skeletal support is

- d) Endoplasmic reticulum
- e) Golgi complex
- f) lysosome
- g) ribosome

Answer in one sentence

1 who discovered cell

2 what is cell

3 the main function of nucleolus

4 what is Christie

5 who proposed the fluid mosaic model of plasma membrane

6 who proposed the unit membrane model of plasma membrane

7 define phagocytosis and pinocytosis

8 which type of ribosome present in prokaryotic cell

9 what is the sedimentation coefficient of ribosome in Eukaryotic cell

11 who discovered lysosome

12 write one function of lysosome

13 who coined the term mitochondria

14 What is the Function of F1 particles

15 What type of ribosome are found in mitochondria

16 what is autophagy

17 complex first which type of prosthetic group of 14 present.

Short term questions

- 1 structure of prokaryotic cell
- 2 function of plasma membrane
- 3 structure of Endoplasmic reticulum
- 4 structure of Eukaryotic cell
- 5 fluid mosaic model of plasma membrane
- 6 function of Endoplasmic reticulum
- 7 Function of Golgi complex
- 8 ultrastructures of ribosome
- 9 structure of Mitochondria
- 10 structure of Golgi complex
- 11 function of ribosome
- 12 Function of lysosome
- 13 eukaryotic cell (diagrams only)
- 14 Daniel and Davidson model of plasma membrane
- 15 type of Endoplasmic reticulum
- 16 polymorphism in lysosome
- 17 unit membrane model
- 18 structure of Mitochondria
- 19 function of Mitochondria
- 20 fluid particles elementary particles