	NEET : CHAPTE	R WISE	TEST_0		
SUBJECT:- BIOLOGY			DATE		
CLASS: - 11 th					
CHAPTER :- CELL THE UNIT OF LIFE			NAME SECTION		
СПАР			SECTION		
	(SECT)	-	\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\		
1.	Which of the following statement is	7.		owing is absent in	
	incorrect?		prokaryotes?	(D) N	
	(A) Unicellular organisms are capable of		(A) Ribosomes	(B) Nucleoid	
	independent existence, but they cannot		(C) Sap vacuoles	(D) Gas vacuoles	
	perform all the vital functions of life.		ia tha l	argest isolated single	
	(B) Anything less than a complete structure of a cell does not ensure	8.	cell.	argest isolated single	
				lor	
	independent living. (C) Anton van Leeuwenhoek first saw and		(A) Egg of Salamander(B) Egg of an Ostrich		
	described a live cell.		(C) Nerve cell		
	(D) Robert Hooke published his work in		(D) Mesophyll cell		
	Micrographia		(D) Mesopriyii celi		
			Inclusion bodies in b	acterial cells are	
2.	Who proposed the cell theory?		(A) Non-living storag		
	(A) Robert Hooke		(B) Lie free in cytoplasm		
	(B) Virchow (C) Schleiden and Schwann		(C) Bounded by a mo		
	(D) Singer and Nicolson		(D) All except (C)	·	
	. ,				
3.	Which of the following statement is not a	10.	A prokaryotic cell is	characterized by	
	part of final cell theory? (A) All living organisms are composed of		(A) Presence of de	s linear DNA but no	
	cells and product of cells.		histones		
	(B) All cells arise from pre-existing cells.		• •	omes but no nucleus	
	(C) Cell has a thin outer layer called		` '	nembrane-bound cell	
	plasma membrane.		organelles		
	(D) More than one option is correct.		(D) All of these		
4.	The feature which differentiate cells of	11.	Which of the fo	llowing structure is	
	human cheek with the cells of onion peel	11.		ondria in a prokaryotic	
	is (A) The state of the state o		cell?	oridina iii a prokaryotic	
	(A) The type of outer boundary		(A) Mesosomes	(B) Dictyosomes	
	(B) Cytoplasm which is the main arena of		(C) Lysosomes	(D) Glyoxysomes	
	cellular activities		(e) Lyccomico	(B) Clyckycomico	
	(C) Absence of centriole	12.	The ribosomes of	a polysome translate	
	(D) Presence of dense membrane bound		theinto protei	• •	
	structure		(A) mRNA	(B) tRNA	
5.	Choose the incorrect statement w.r.t. the		(C) rRNA	(D) DNA	
	main arena of cellular activities of a cell:				
	(A) It is a semifluid matrix.	13.	Cellulose, galacta	ns, mannans and	
	(B) It occupies the volume of cell.		calcium carbonate	are found in the cell	
	(C) It is found in both plant and animal cells.		wall of		
	(D) It is also called as cell sap.		(A) Fungi	(B) Algae	
	(-, 2 2 2 33 43 55 53p.		(C) Diatoms	(D) Higher plants	
6.	Most prokaryotic cells, particularly				
	bacterial cells have	14.		and parenchymatous	
	(A) A chemically simple cell envelope		cells have		
	(B) A chemically complex cell envelope		(A) Only primary cell wall (B) Large central vacuoles		
	(C) No cell envelope				
	(D) Cell envelope in the form of cell wall		(C) Only secondary		
	and cell membrane only		(D) Middle lamella ar	nd secondary cell wall	

- **15.** Read the following statements w.r.t. cell wall and select the correct option:
 - (A) A non-living rigid structure which forms an outer covering for the plasma membrane.
 - (B) It gives shape to the cell and protect the cell from mechanical damage and infection.
 - (C) It helps in cell-to-cell interaction.
 - (D) It provides barrier to undesirable macromolecules.
 - (A) Only (A) is correct
 - (B) Only (A) and (B) are correct
 - (C) (D) is incorrect
 - (D) (A), (B), (C), (D) are correct
- **16.** Which of the following cell organelles has enzymes 36 which are optionally active at acidic pH?
 - (A) Lysosomes
- (B) Mitochondria
- (C) Lomasomes
- (D) Chloroplast
- **17.** An animal cell differs from higher plant cell in possessing
 - (A) Vacuoles
- (B) Centrosomes
- (C) Distinct cell wall
- (D) Cytoskeleton
- 18. -A student studies cell structure under compound microscope and concludes that the cell is an animal cell. Of the following, which observation might have helped him to conclude it?
 - (A) The cell had its nucleus toward the centre.
 - (B) The cell had only cell membrane as the limiting boundary.
 - (C) Mitochondria and plastids were brightly stained.
 - (D) The cell had flagella arising from basal body.
- 19. If the cell wall of a plant cell is removed, which of the following ability will be lost by the cell?
 - (A) Shrinking of protoplasm
 - (B) Exosmosis by cell
 - (C) Prevention of over expansion of cell
 - (D) Prevention of flaccidity
- **20.** All the given cell organelles are included endomembrane system, except in
 - (A) Endoplasmic reticulum
 - (B) Nucleus
 - (C) Golgi apparatus
 - (D) Vacuole

- **21.** Who proposed the fluid mosaic model of plasma- membrane?
 - (A) Camillo Golgi
 - (B) Singer and Nicolson
 - (C) Schleiden and Schwann
 - (D) Rudolf Virchow
- **22.** How many different proteins does the ribosome consist of?
 - (A) 80
- (B) 60
- (C) 40
- (D) 20
- **23.** The molecule in a membrane that limit its permeability are
 - (A) Carbohydrates
- (B) Proteins
- (C) Phospholipid
- (D) Water
- **24.** Chemical studies especially in scientists to deduce the possible structure of plasma membrane.

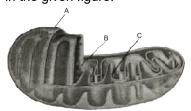
enabled the

- (A) Human WBC
- (B) Human RBC
- (C) Muscle
- (D) Neurons
- **25.** Identify the organelles on the basis of given features.
 - A. Involved in the synthesis of lipid-like steroidal hormones.
 - B. Show different morphological and physiological states during functioning.
 - C. Involved in the cell plate formation during cytokinesis in plant cells.

	Α	В	С		
(A)	SER	Lysosomes	Golgi bodies		
(B)	PER	Golgi bodies	Middle lamella		
(C)	SER	Golgi bodies	Middle lamella		
(D)	Golai bodies	Lvsosomes	SER		

- **26.** Select the incorrect statement w.r.t. fluid mosaic model of plasma membrane:
 - (A) Integral proteins are partially or totally buried in the membrane.
 - (B) The non-polar tail of unsaturated hydrocarbons is protected from the aqueous environment.
 - (C) Removal of transmembrane protein requires crude methods of treatments like detergents.
 - (D) The polar heads of the lipid are directed towards the inner part of the membrane.
- **27.** Enzymes of lysosomes are
 - (A) Active at neutral pH
 - (B) Active at acidic pH
 - (C) Active at high pH
 - (D) Active at basic pH

- **28.** The proteins that will function outside the cytoplasm are made by
 - (A) Golgi apparatus
 - (B) Ribosomes on RER
 - (C) 70S ribosomes in mitochondria and plastids
 - (D) Nucleolus
- 29. Of the following structure of a plant cell, the one that most often has the greatest volume is
 - (A) Vacuole
- (B) Lysosome
- (C) Glyoxysome
- (D) Ribosome
- **30.** Some ions are transported across the membrane against their concentration gradient by using ATP. Such process is called
 - (A) Active transport
 - (B) Passive transport
 - (C) Osmosis
 - (D) Diffusion
- **31.** Packaging of substances for export from cell occurs in
 - (A) SER
- (B) RER
- (C) Golgi apparatus
- (D) Vacuoles
- 32. Cell wall is
 - A. A nonliving, rigid structure that surrounds the plasma membrane of plant and animal cells.
 - B. Fungal cell wall is made up of chitin.
 - (A) Only A is correct
 - (B) Only B is correct
 - (C) (A) and (B) are correct
 - (D) Bath (A) and (B) are incorrect
- **33.** Read the following features of a cell organelle:
 - (I) Requires specific vital stain to be viewed under the microscopes.
 - (II) Shows great variability in the form of their number, shape and size.
 - (III) Typically sausage shaped or cylindrical.
 - (IV) Involved in oxidative phosphorylation. Identify the organelle on the basis of above features:
 - (A) Chloroplast
- (B) Peroxysome
- (C) Mitochondria
- (D) Leucoplasts
- **34.** Identify the structure labelled as A, B and C in the given figure.



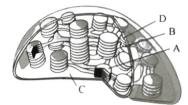
	Α	В	С
(A)	Inver membrane	Matrix	Cristae
(B)	Outer membrane	Matrix	Cristae
(C)	Outer membrane	Inner membrane	Matrix
(D)	Outer membrane	Cristae	Thylakoid

- **35.** How many microtubule fibrils are present in flagella of eukaryotic cells?
 - (A) 27
- (B) 20
- (C) 18
- (D) 54

(SECTION-B)

- 36. Ribosomes are composed of
 - (A) DNA and RNA
 - (B) DNA and Proteins
 - (C) RNA and Proteins
 - (D) RNA and Phospholipids
- **37.** Majority of chloroplast in the green plants are
 - (A) Mesophyll cells of leaves
 - (B) Bundle sheath cells of leaves
 - (C) Mid rib
 - (D) Adaxial epidermal cells
- **38.** How many of the given features are associated with both mitochondria and chloroplast?
 - 70S Ribosomes, Double membrane, thylakoid linear DNA, Cristae, Oxysome, Phosphorylation
 - (A) Three
- (B) Five
- (C) Four
- (D) Two
- **39.** Centrioles are found in all given organisms, except
 - (A) Algae
- (B) Fungi
- (C) Animals
- (D) Higher plants
- **40.** Matrix of mitochondria contains
 - (A) Enzymes for formation of ATP
 - (B) Single double-stranded circular DNA
 - (C) 80S ribosomes
 - (D) All of these
- **41.** The site of photophosphorylation is
 - (A) Stroma of chloroplast
 - (B) Mitochondrial matrix
 - (C) Thylakoid membrane
 - (D) Oxysome of mitochondria
- **42.** Which of the following feature is not similar in mitochondria and chloroplast?
 - (A) Semiautonomous in nature
 - (B) Synthesis of ATP
 - (C) Presence of ds circular DNA and ribosomes
 - (D) Elementary particles on cristae

43. The figure given below shows the structure of a chloroplast with its four parts labelled as A, B, C and D. Select the part incorrectly matched with its function.



- (A) A: Thylakoid contains chlorophyll pigment in its membrane
- (B) B: Granum-site of light independent phase
- (C) C: Stroma– contains enzymes required for synthesis of carbohydrates and proteins
- (D) D: Inner membrane-Relatively less permeable than outer membrane
- **44.** In 70S and 80S ribosomes, 'S' as a unit stands for
 - (A) Svedberg's unit
 - (B) Sedimentation coefficient
 - (C) Smaller subunit
 - (D) More than one option is correct
- **45.** The cytoskeleton is a proteinaceous network the cytoplasm involved in
 - (A) Mechanical support
 - (B) Motility
 - (C) Maintenance of the cell shape
 - (D) All of these

- **46.** An organelle with an internal cross section showing characteristic (9+2) morphology is
 - (A) Centriole
 - (B) Prokaryotic flagella
 - (C) Eukaryotic flagella and cilia
 - (D) Both (A) and (C)
- **47.** The cellular component at the base of each cilium or flagellum is
 - (A) Axoneme
- (B) Basal body
- (C) Nucleus
- (D) Centromere
- 48. Microbodies are
 - (A) Present in only animal cells
 - (B) Membrane-bound minute vesicles
 - (C) Self-duplicating organelles
 - (D) Semiautonomous organelles
- **49.** Lightly stained region of chromatin during interphase is
 - (A) Highly condensed region
 - (B) Transcriptionally active
 - (C) Rich in densely packed DNA
 - (D) More than one option is correct
- **50.** Which of the following part is incorrectly matched:
 - (A) Nucleolus Non-membranous part of nucleus and site of rRNA synthesis
 - (B) Centromere Structure which provides shape to chromosome
 - (C) Heterochromatin Rich in loosely packed DNA
 - (D) Sub-metacentric chromosome L-shaped chromosom.