GPLUS EDUCATION

Date	:	
Time	:	
Marks	:	

BIOLOGY

CELL THE UNIT OF LIFE

		Single Correct	Answer Type				
1.	What are those structures that appear as 'beads-on-string' in the chromosomes when viewed under electron microscope?						
	a) Nucleotides	b) Nucleosomes	c) Base pairs	d) Genes			
2.	The two polynucleotide	=	e) base paris	u) donos			
	a) Parallel	b) Discontinuous	c) Antiparallel	d) Semi-conservative			
3.	Centrosome is not presen	•	o) 1	,			
٥.	a) Cell of higher plants		b) Cell of lower plants				
	c) Cell of higher animals		d) Cell of lower animals				
4.	Channel proteins are inv	olved in	·· , - · · · · · · · · · · · · · · · · · ·				
	a) Transport of enzymes		b) Water transport				
	c) Active transport of ior		d) Passive transport of ic	ons			
5.		r secondary constriction is					
	a) Centriole	b) Centromere	c) Chromomere	d) Satellite			
6.	Tubulin protein occurs in	1					
	a) Digestive enzymes	31	b) Rough endoplasmic re	eticulum			
	c) Thylakoids		d) Microtubules				
7.	Quantasomes are found i	n					
	a) Mitochondria		b) Chloroplast				
	c) Lysosome	WOLLIE FOLK	d) Endoplasmic reticulur	n			
8.	In which one of the follow	wing would you expect to fi	nd glyoxysomes?				
	a) Endosperm of wheat		b) Endosperm of castor				
	c) Palisade cells in leaf		d) Root hairs				
9.	The non-membranous or	ganelles are					
	a) Centrioles	b) Ribosomes	c) Nucleolus	d) All of these			
10.	Single stranded DNA is for						
	a) Polio viruses	b) Rich dwarf virus	c) TMV	d) φ × 174			
11.	Ribosomes that occur excl						
	a) 70 S	b) 55 S	c) 30 S	d) 50 S			
12.	Number of protofilament						
	a) 13	b) 12	c) 5	d) 10			
13.	_	ures first observed under e	lectron microscope as dens	se particles byB (1953).			
	Here, A and B refer to						
	a) A-Ribosomes; B-Perne		b) A-Lysosomes; B-de Du				
	c) A-Peroxisomes; B-Fler	-	d) A-Ribosomes; B-Georg	ge Palade			
14.	Middle lamella is present			.,			
	a) Inside the secondary v						
4-	c) Outside the primary w		d) In between secondary				
15.	•		walled endoplasmic reticul				
1.0	a) DNA	b) Nucleus	c) Ribosomes	d) Ergastic substance			
16.		oved model of cell membra					
	a) Fluid mosaic model		b) Robertson's model				

				opius zuucucion
17	c) Danielli and Davson's		d) Unit membrane mode	1
17.	a) Golgi body	pindle formation during nu b) Chloroplast	c) Centriole	d) Mitochondrion
18.		ctional view of a chloroplast		=
	E A B	•		
			D.C. 1 11 F.C.	n ml l l · l
	-	-Granum, C-Outer membra		
		3-Inner membrane, C-Granu membrane, C-Stroma, D-St		
		B-Stroma, C-Inner membran		
19.	=	tatements and choose the c		r seroma amena
		ioles which are absent in al		
	b) Ribosomes are the sit			
	c) The middle lamella is	layer mainly of calcium car	bonate which holds the dif	ferent neighbouring cells
	together			
		dal hormones are synthesis		reticulum
20.		nsists of which of the follow	= =	
	a) Deoxyribose	b) Ribose	c) Sucrose	d) Maltose
21.		ATP synthesis in the chlore	-	
	a) Proton gradient	nne	b) Accumulation of K ion	S
22.	c) Accumulation of Na ic Polysome is formed by	JIIS	d) Membrane potential	
22.	a) Several ribosomes att	ached to a single mRNA		
	-	ched to a strand of endopla	smic reticulum	
	c) A ribosome with seve		CATTONI	
		o each other in a linear arra	angement	
23.	In eukaryotic cell, plasm	odesma is lined by plasma	membrane. It encloses tubi	ılar extension of
	endoplasmic reticulum o			
	a) Microtubule	b) Microfilament	c) Tubule	d) Desmotubule
24.		e limit of cell size or volume	e are	
	I. nucleo-cytoplasmic or	_		
	II. rate of metabolic activ	•	your part of the goll	
		other materials to reach ev ucts to pass to the outside	ery part of the cen	
	V. ratio of surface area to	•		
	Identify the correct set of			
	a) III and IV	b) I and II	c) Only V	d) I, II, III and IV
25.	The difference between	rough endoplasmic reticulu	ım and smooth endoplasmi	c reticulum is that rough
	endoplasmic recticulum			
	a) Does not contain ribo		b) Contains ribosomes	
	c) Does not transport pr	roteins	d) Transport proteins	
26.	Cilia are			
		like narrow protoplasmic p	rocess	
	b) With sweeping or per	idular movements		
	c) More numerousd) All of the above			
27.	The enzyme DNA polym	erase was discovered hy		
-/.	a) Kornberg	b) Okazaki	c) Watson and Crick	d) Stahl and Meselson
	, ,	-	•	-

				opius zaacatio.
28.	Plant cells possess	1.	h)	
	a) Cell wall and central v	acuoie	b) Cell wall only	11-
20	c) Cell wall and plastids		d) Cell wall, plastids and	large central vacuole
29.	Which of the following st		nd angan avatam nagulta in a	liviaion of labour
		elops by the division of a p	nd organ system results in c	iivision of tabour
	III. Cells are totipotent	elops by the division of a p	re-existing cens	
	=	it canable of independent	ovictorics and performing t	he essential functions of life
	The correct option is	nt, capable of mucpendent	existence and performing t	ne essential functions of me
	a) I, II and III	b) I, III and IV	c) II, III and IV	d) I, II, III and IV
30	•	eatures are correct regarding	-	aj i, ii, iii alia iv
50.	I. Non-membrane bound	-		
	II. Absent in plastids and			
	III. Present in the cytopla			
	IV. Take part in protein s			
	The correct option is			
	a) Only II	b) I and II	c) I, II, III and IV	d) I, III and IV
31.	In prokaryotic cell,			
	I. enveloped genetic mate	erial is present		
	II. ribosomes are absent			
	III. an organised nucleus	is absent		
	The correct option is			
	a) Only I	b) Only II	c) Only III	d) I, II and III
32.	In a DNA molecule, dista		. 0	. 0
	a) 2 nm/20Å	b) 0.2 nm/2Å	c) 3.4 nm/34Å	d) 0.34 nm/3.4Å
33.		DNA molecule means that		
	a) One strand turns anti-		CATTONI	•,•
			eir ends, share the same pos	
	d) One strand turns clock		rands are in opposite positi	lon(pole)
31.			s per Gram's staining techn	iana
54.	I. Treatment with 0.5% is	= =	s per drain's staining techn	ique
	II. Washing with water	odine solution		
	III. Treatment with absol	ute alcohol/acetone		
		kaline solution of crystal v	iolet	
	The correct sequence is	J		
	a) II→I→IV→III	b) IV→I→III	c) $III \rightarrow II \rightarrow IV$	d) I→IV→III→II
35.	In eukaryotes, basic stru	ctural unit made up of hist	one and DNA is	
	a) Nucleosome	b) Nucleolus	c) Chromosome	d) Lysosome
36.	Choose the correct states	ment from the codes given	below	
	•		cells to maintain its chemic	-
		n contrast to disorderly dis	stribution and randomly in	teracting molecules in the
	extra-cellular medium			
		=	the present of specific chen	
	-	are often connected with o	ne another through cytopla	smic bridges called
	plasmodesmata		11 1	
		=	vell as exchange materials v	
37.	a) II and IIIDNA multiplication is cal	b) I and II	c) I, III and IV	d) I, II, III and IV
3/.	a) Translation	b) Replication	c) Transduction	d) Transcription
	aj ITalislation	b) Replication	cj mansauction	aj manscripuon

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38. Ribosomes are found in a) Cytoplasm and nucleus c) Mitochondria and bacterial cell d) Endoplasmic reticulum and Golgi comp n In protoplasm, fat store in the form of a) Polypeptide b) Triglyceride c) Polysaccharide d) Nucleoside 40. Spindles are formed by a) Microtubules c) Golgi body d) Peroxisomes 41. Glycocalyx (mucilage sheath) of a bacterial cell may occur in the form of a loose sheath called may be thick and tough called B Choose the correct pair from the given option a) A-capsule; B-slime layer c) A-mesosome; B-capsule d) A-mesosome, B-slime layer c) A-mesosome; B-capsule d) A-mesosome, B-slime layer c) A-mesosome; B-capsule d) A-mesosome, B-slime layer d) A-mesosome, B-slime layer e) A-mesosome, B-capsule d) A-mesosome, B-slime layer d) A-mesosome, B-slime layer d) A-mesosome, B-slime layer e) Small cells have a small surface area per volume ratio b) Exchange rate of nutrients is fast with large cells c) Small cells have a large surface area per volume ratio d) Exchange rate of nutrients is slow with small cells d) Exchange rate of nutrients is is slow with small cells d) Exchange rate of nutrients is is slow with small cells d) Exchange rate of nutrients is is slow with small cells d) Exchange rate of nutrients is is slow with small cells d) Exchange rate of nutrients is is slow with small cells d) Exchange rate of nutrients is is slow with small cells d) Exchange rate of nutrients is slow with small cells d) Exchange rate of nutrients is slow with small cells d) Exchange rate of nutrients is slow with small cells d) Exchange rate of nutrients is slow with small cells d) Exchange rate of nutrients is slow with small cells d) Dott capable of independent existence but they can perform all the essential functions of life c) Capable of independent existence but they can perform all the essential functions of life c) Capable of independent existence but they perform few vital functions of life c) Capable of independent existence but they perform few vital functions of life c) Capable of indep				Opius Luucution
c) Mitochondria and bacterial cell d) Endoplasmic reticulum and Golgi comp 30. In protoplasm, fat store in the form of a la Polypeptide b) Triglyceride c) Polysaccharide d) Nucleoside 40. Spindles are formed by a Microtubules c) Golgi body d) Peroxisomes 41. Glycocalyx (mucilage sheath) of a bacterial cell may occur in the form of a loose sheath called B Choose the correct pair from the given option a) A-capsule; B-slime layer b) A-slime layer, B-capsule c) Golgi body d) A-mesosome; B-capsule d) A-mesosome;	38.			
39. In protoplasm, fat store in the form of a protoplasm, fat store in the form of a protoplasm, and protoplasm is a protoplasm. A protoplasm is a protoplasm. A protoplasm is a protoplasm. A protoplasm is reticulum and protoplasm is reticulum and protoplasm. A protoplasm is reticulum and protoplasm is reticulum and protoplasm is reticulum and protoplasm. A protoplasm is reticulum and protoplasm is reticulum and protoplasm is reticulum and protoplasm. A protoplasm is reticulum and protoplasm is reticulum and protoplasm. A protoplasm is reticulum and protoplasm. A protoplasm is reticulum and protoplasm and large cells, which statement is correct? 40. A protoplasm and large cells, which statement is correct? 41. Small cells have a small surface area per volume ratio by Exchange rate of nutrients is fast with large cells. Comparing small and large cells, which statement is correct? 42. Inicellular organisms are an protoplasm and protoplasm and protoplasm and and protoplasm and and protoplasm and and protoplasm and and and protoplasm and				
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c) A-mesosome; B-capsule				
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 43. Comparing small and large cells, which statement is correct? a) Small cells have a small surface area per volume ratio b) Exchange rate of nutrients is fast with large cells c) Small cells have a large surface area per volume ratio d) Exchange rate of nutrients is slow with small cells 44. Unicellular organisms are a) Not capable of independent existence because they cannot perform all the essential functions of life c) Capable of independent existence but they can perform all the essential functions of life c) Capable to lead independent existence but they perform few vital functions of life 45. Stain used by Feulgen to stain DNA is a) Janus green b) Basic fuchsin c) Crystal violet d) Methylene b 46. Out of A-T, G-C pairing, bases of DNA may exist in alternate valency state owing to arrangement a) Tautomerisational mutation c) Point mutation d) Frameshift mutation d) Frameshift mutation d) 1960 48. Okazaki fragments are produced during the synthesis of a) mRNA b) Protein c) tRNA d) DNA 49. Cellulose, the most important constituent of plant cell wall is made up of a) Branched chain of glucose molecules linked by α 1-6 glycosidic bond at the site of branching b) Unbranched chain of glucose molecules linked by β, 1-4 glycosidic bond b) Branched chain of glucose molecules linked by β, 1-4 glycosidic bond f) fl flagella membrane, which enzyme catalysis ATP activity? a) Cytoplasmic dyenin b) Asconic dynein c) Kinesis d) Myosin 51. During the replication of DNA, the synthesis of DNA on lagging strand takes place in segments. To segments are called a) Double helix segments c) Kornberg segments d) Okazaki segments<td>42.</td><td></td><td></td><td></td>	42.			
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adenine? a) 0% b) 10% c) 20% d) 30%	52.			entage of the bases would be
a) 0% b) 10% c) 20% d) 30%			1,	5
			c) 20%	d) 30%
33. The term brotopiasin was conieu by	53.	The term 'protoplasm' was coined by	<i>, = - / •</i>	<i>y</i> / •

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				Gpiu.
	a) Virchow	b) Purkinje	c) Dujardin	d) Kolliker
54. Select the incorrect statement				
	a) Robert Brown d	iscovered cell		
	b) Antony von Leei	ıwenhoek first saw and des	scribed a living cell	

c) Cell is the basic unit of structure and function of all organisms d) Anything less than a complete structure of a cell do not ensure independent living

- 55. Which of the following is responsible for the origin of lysosome? b) Mitochondria a) Chloroplast c) Golgi body
- d) Ribosome
- 56. In his bacteriophage experiments, Hershey and Chase demonstrated that DNA is genetic material in
 - a) TMV
- d) Diplococcus pneumoniae

b) Escherichia coli

- c) T_2 bacteriophage 57. The length of DNA molecule greatly exceeds the dimensions of the nucleus in eukaryotic cells. How is this DNA accommodated?
 - a) Deletion of non-essential genes

b) Super-coiling in nucleosomes

c) DNA se digestion

- d) Through elimination of repetitive DNA
- 58. Diameter of DNA is constant due to
 - a) Hydrogen bonds between base pairs
- b) Phosphodiester bond

c) Disulphide bond

- d) Covalent bonds
- 59. Which of the following sugars is found in nucleic acid?
 - a) Dextrose
- b) Glucose
- c) Levulose
- d) Deoxyribose

- 60. Categorise the given statements as true and false
 - I. Kingdom Monera have eukaryotic organisation
 - II. *E. coli* is a eukaryote
 - III. Organised nucleus is present in eukaryotes
 - IV. Paramecium is a prokaryote
 - a) T, T, F, F
- b) F, F, T, T
- c) F, F, T, F
- d) T, T, T, F
- 61. Which of the following statements are correct about prokaryotic genetic material (DNA)?
 - I. DNA is naked, that is without histones
 - II. DNA is usually circular/single chromosome
 - III. Outside the genomic DNA, small circular DNA is also present in many bacteria
 - IV. The smallest DNA are called plasmids
 - a) I and II
- b) I and III
- c) Only I
- d) I, II, III and IV

- 62. Golgi body originates from
 - a) Lysosome

b) Endoplasmic reticulum

c) Mitochondria

- d) Cell membrane
- 63. The following diagrams represent the nitrogenous bases of nucleic acid molecules. Identify the correct combination.

- a) A- Uracil, B- Adenine, C- Thymine, D- Guanine, E- Cytosine
- b) A- Uracil, B- Guanine, C- Cytosine, D- Adenine, E- Thymine
- c) A- Thymine, B- Adenine, C- Cytosine, D- Guanine, E- Uracil
- d) A- Uracil, B- Guanine, C- Uracil, D- Adenine, E- Cytosine

				Gpius Eaucation	
64.	-	embrane in prokaryotic cell		d) None of these	
. =	a) Mesosome	b) Haploid	c) Ribosome	d) None of these	
65.		ts of lipids, proteins carbohy	yarates and water. These	lipid molecules are	
	a) Amphiatic				
	b) Amphipathic	lia and non nolay budyonho	hia anda		
	d) All of the above	lic and non-polar hydropho	bic ends		
66	•	ic projections on the free s	urface of abcorptive cells	(such as intestinal cells) are	
00.	called	ne projections on the free st	arrace of absorptive cens ((such as intestinal tens) are	
	a) Plasmodesmata	b) Microfilaments	c) Cilia	d) None of these	
67	are an exception to	•	c) dilla	d) None of these	
07.	a) Bacteria	b) Fungi	c) Viruses	d) Lichens	
68	Structural lipids of cell	, 0	c) viruses	a) Helielis	
001	a) Simple lipid	b) Chromolipids	c) Steroid	d) Phospholipids	
69	Quantasomes are prese	•	ej oteroia	a) i nosphonpias	
0,1	a) Chloroplast	b) Mitochondria	c) Golgi body	d) Lysosome	
70.	-	•	, , ,	released into the phragmoplast	
, 01	by	is round most abundantly o	ii die iiiaaie iaiieia are i	creased into the pinaginoplase	
	a) Endoplasmic reticul	ım	b) Golgi complex		
	c) Spindle fragments	****	d) Interzonal fibres		
71.		cepted 'fluid mosaic model'	-	·fluid, where lipids and	
	=	_		modified in several respects.	
	In this regard, which of the following statement is incorrect?				
	_	branes can travel within the			
		confined within certain dor			
	•	dergo flip-flip movements ii			
	=	in completely embedded wi	= = =		
72.	Okazaki fragments are	joined in a correct sequence	e by		
	a) DNA polymerase	b) DNA ligase	c) RNA polymerase	d) Primase	
73.	Which of the following	cell organelles stores hydro	lytic enzymes?		
	a) Centriole	b) Lysosome	c) Chromoplast	d) Chloroplast	
74.	Cell is the fundamental	structural and functional u	nit of all living organisms.	This was evidenced by the	
	fact that				
	a) All cells arises by the	fusion of two cells	b) All cells are totipote	ent	
	c) Subcellular compone	ents can regenerate a	d) Anything less than a complete structure of a cell		
	complete cell		does not ensure ind	ependent living	
75.	What is mitoplast?				
	a) Membraneless mitod	chondria	b) Another name of mi		
	c) Mitochondria withou		d) Mitochondria witho	ut inner membrane	
76.	Assembly of two subun	its, 40S and 60S of the ribos	some is		
	a) 100S	b) 80S	c) 70S	d) 50S	
77.	Cell membrane of euka	-			
	a) Carbohydrates and p		b) Proteins and lipids		
	c) Carbohydrates and l	=	d) Carbohydrates, lipic	ls and proteins	
78.	Sigma factor is related				
	a) RNA polymerase	b) DNA polymerase	c) Both (a) and (b)	d) None of these	
79.	=	s as seen by Robert Hooke v	=		
	a) <i>Origin of Species</i>	b) <i>Genera Plantarum</i>	c) <i>Micrographia</i>	d) <i>Species Pantarum</i>	
80.	Robert Hooke thought				
	a) Something similar to	veins and arteries of anima	als for conducting fluid.		

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	b) Smallest structural unit		•			
	c) Smallest functional unit					
	d) Unit of heredity					
81.	Ribosomal RNA (r RNA) is synthesised in					
	a) Nucleolus b) Nucleosome	c) Cytoplasm	d) Ribosome			
82.	Which of the following organelles does not					
	a) Chromosome b) Plasmalemm		d) Ribosome			
83.	In the given diagram of types of chromoso	mes, identify A-D	-			
	Shorter arm Centromere Long arm A B C Satellite Secondary construction Centromere Centromere Centromere	·				
	a) A-Telocentric chromosome, B-Acrocent	ric chromosome, C-Submetacen	tric chromosome, D-Metacentric			
	chromosome					
	b) A-Acrocentric chromosome, B-Telocent	ric chromosome, C-Metacentric	, chromosome, D-			
	Submetacentric chromosome					
	c) A-Submetacentric chromosome, B-Meta	centric chromosome, C-Telocer	ntric chromosome, D-Acrocentric			
	chromosome					
	d) A-Metacentric chromosome, B-Submeta	centric chromosome, C-Acroce	ntric chromosome, D-Telocentric			
	chromosome					
84.	Read the following statements and identify					
	I. In prokaryotic cell, the nuclear membr	_				
	microtubules and different kinds of pi		and the second second			
	II. In eukaryotic cell, the nuclear membra	ne, chloroplast, mitochondria a	nd pili are			
	present.					
	III. In prokaryotic cell, the ribosome is of 7		f			
	eukaryotic animal cell, the ribosome i		1111			
	a) I and II are wrong; III is correct	b) I is correct; II and				
05	c) I and III are correct; III is wrong	d) I, II and III are wr	_			
85.	Schleiden (1838) proposed that cell is the					
0.0	a) Assumption b) Generalisation	on c) Hypotnesis	d) Observation			
86.	In DNA, which of the following is absent?		D.H			
07	a) Adenine b) Thymine	c) Guanine	d) Uracil			
87.	Which of the following enzymes has/have haeme as a prosthetic group?					
	I. Catalase					
	II. Carboxypeptidase					
	III. Succinic dehydrogenase					
	IV. Peroxidase a) I only b) I and II	a) II and III	d) I and IV			
00		c) II and III	d) I and IV			
00.		In prokaryotes, chromatophores are a) Specialised granules responsible for colouration of cells				
	b) Structures responsible for organising th					
	c) Incusion bodies lying free inside the cell	-	holic activities			
	d) Internal membrane system that may be					
89	hnRNA undergoes two additional processi	-	- · · · · · · · · · · · · · · · · · · ·			
٠,٠	guanosine triphosphate) is added to the 5'	_	• •			
	a) Capping b) Tailing	c) Splicing	d) Termination			
	, ,, ,	, , ,				

c) Ribosomes

d) Plastids

90. In prokaryotic cells, an organelle like the one is eukaryotic cells is

a) Lysosomes

91. Amino acid binding site in tRNA is

b) Golgi apparatus

				· · ·				
	\) ((4.0)	Gplus Education				
00	a) 5' end	b) Anticodon loop	c) CCA 3' end	d) DHU loop				
92.	Protoplasm of a eukaryot) (, , 1	DE L.				
00	a) Chloroplast	b) Protoplast	c) Cytoplasm	d) Endoplast				
93.		a lipoprotein covering is ab		D Di				
0.4	a) Ribosomes	b) Lysosomes	c) Mitochondria	d) Peroxisomes				
94.	The infoldings in mitocho) (C) -	12 ml 1 1 1 1				
	a) Cristae	b) Matrix	c) Cisternae	d) Thylakoids				
95.		statement about the bacter						
	a) The outermost cell wall is followed by glycocalyx and then the plasma membrane							
	-	= =	ists of only plasma membra	ne				
	-	llyx is followed by cell wall		,				
			membrane and then the cel					
96.		ls in an ascending order of	their size and select the co	rrect option				
	I. Ostrich eggs							
	II. Mycoplasma							
	III. Bacteria							
	IV. Human RBCs							
	a) II→III→IV→I	b) I→IV→III→II	c) II→I→IV→III	d) I→II→IV→III				
97.	•							
	a) Protists	b) Fungi	c) Plants	d) All of these				
98.	Which enzyme joins DNA	=						
	a) DNA ligase	b) DNA polymerase	c) DNA gyrase	d) Topoisomerase				
99.	What is C-value paradox?	S 14						
	a) Haploid DNA content		b) Huge variations in C-va	alues for all species				
100	c) Constant C-value for all		d) Diploid DNA content					
100	In fluid mosaic model of p							
	a) Upper layer is non-pol		0.0000000000000000000000000000000000000					
	b) Polar layer is hydroph		.AHON					
		oimolecular layer in middle	e part					
4.04	d) Proteins from a middle		l	4 1 1 1 2				
101	-		complete turns will the DN					
100	a) 4,500	b) 45,000	c) 45	d) 450				
102	The distance between tw			12.20 %				
100	a) 34Å	b) 3.4Å	c) 0.34Å	d) 20Å				
103		rs and identify the correct	_					
		n pigments other than chl	oropnyll					
	II. Leucoplasts – Devoid	·						
	III. Amyloplasts – Store p							
	IV. Aleuroplasts – Store of							
	-	arbohydrates	10.111 1.111					
	a) II and III are correct		b) III and IV are correct					
101	c) IV and V are correct		d) I and II are correct					
104	_	not relevant to the structu	_					
	-	ompleter spiral turn every	34A					
	b) The diameter of the he							
		adjacent nucleotide is 3.4Å		d phoophoto				
	u j dach stranus of nellx h	as a backbone made up of	anernaung ridose sugar an	d) Each strands of helix has a backbone made up of alternating ribose sugar and phosphate				

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c) Thymine

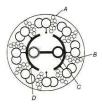
d) None of these

b) Guanine

106. Identify A to D in the diagrammatic representation of internal structure of centrioles

105. RNA has uracil instead of

a) Cytosine



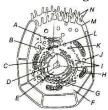
- a) A-Interdoublet bridge, B-Central microtubule, C-Plasma membrane, D-Radial spoke
- b) A-Plasma membrane, B-Central microtubule, C-Interdoublet bridge, D-Radial spoke
- c) A-Plasma membrane, B-Interdoublet bridge, C-Central microtubule, D-Radial spoke
- d) A-Plasma membrane, B-Interdoublet bridge, C-Radial spoke, D-Central microtubule
- 107. Which of the following cellular organelles is/are bound by a single membrane?

Peroxisomes, lysosomes, mitochondria

- a) Only peroxisomes but not lysosomes and mitochondria
- b) Both peroxisomes and lysosomes but not mitochondria
- c) All of the three organelles
- d) None of the three organelles
- 108. Red colour of tomato is due to
 - a) β -carotene
- b) Anthocyanin
- c) Lycopene
- d) Erythrocyanin

- 109. What is the difference between RNA and DNA?
 - a) Base

- b) Sugar
- c) Both (a) and (b)
- d) Phosphate
- 110. Correlate the given features of animal cells (I to VII) with their respective parts (A to N)



- I. The structure replicates during mitosis and generates the spindle
- II. Major site for synthesis of lipid
- III. Power house of the cell
- IV. store house of digestive enzyme
- V. Increase the surface are for the absorption of materials
- VI. Site of glycolysis
- VII. Site for active ribosomal RNA synthesis

The correct option is

I II III IV V VI VII

a) L G H J N F D

b) M G H J N F

c) L B H J N F D

d) M A H J N F D

- 111. Cell membrane was discovered by Schwann (1838) but it was named by
 - a) Nageli and Cramer

b) Schwann and Schleiden

c) Robert Brown

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- 112. Which of the following is not present in cell vacuoles?
 - a) Hydrolytic enzymes

b) Latex of the rubber plant

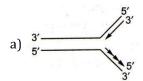
c) DNA

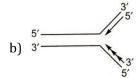
d) Anthocyanins of the flowers

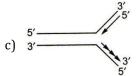
- 113. Plasmodesmata are
 - a) Lignifiesd cemented between cells
 - b) Locomotory structures
 - c) Membranes connecting the nucleus with plasmalemma
 - d) Connections between adjacent cells
- 114. If a cell has a twice as much DNA as in a normal functional cell it means that the cell
 - a) Is preparing to divide

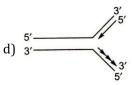
b) Has completed division

c) Has reached the end of its life span	c) Has reached the end of its life span d) Has ceased to function					
115. Within the nucleus DNA is organised along with proteins into material called						
a) Nuclear lamina b) Chromatin	a) Nuclear lamina b) Chromatin c) Chromosome d) Chromatid					
116. The molecular action of UV light is mainly reflected through						
a) Photodynamic action	· · · · · · · · · · · · · · · · · · ·					
b) Formation of pyrimidine						
c) Formation of sticky metaphases						
d) Destruction of hydrogen bonds between DNA	strands					
117. Three of the following statements regarding cell of		ile one is wrong. Which one is				
wrong?		G				
a) Lysosomes are double membraned vesicles	b) Endoplasmic reticu	ılum consists of a network of				
budded off from Golgi apparatus and contain	= = = = = = = = = = = = = = = = = = =	le and helps in transport,				
digestive enzymes	synthesis and secre					
c) Leucoplasts are bound by two membranes, lac		single membrane bound and				
pigment but contain their own DNA and protei		n synthesis and storage of lipids				
synthesising machinery						
118. Plasmodesmata connections helps in						
a) Cytoplasmic streaming	b) Synchronous mitot	tic divisions				
c) Locomotion of unicellular organisms	d) Movement of subst					
119. Which of the following pair is mismatched?	,					
a) Capsule – Thick and tough glycocalyx						
b) Slime layer – Loose glycocalyx						
c) Pilli – Motility organ						
d) Bacterial cells – Motile or non-motile						
120. The rough endoplasmic reticulum (RER) in the ce	ells are because of the pres	sence of				
a) Mitochondria associated with ER	b) Ribosomes on the s					
c) Volutin granules on the surface of ER	d) Sulphur granules o	n the surface of ER				
121. Which one of the following is the correct matchin						
Item Group	b) Ilium iaskium nu	hia Caval han as of				
a) Malleus, incus, cochlea Ear ossicles	b) Ilium, ischium, pu	bis Coxal bones of pelvic girdle				
c) Actin, myosin, Muscle	d) Cytosine, uracil,	Pyrimidines				
rhodopsin proteins	thiamine	Tyrimianies				
122. The two subunits of ribosome remain united at a						
a) Copper b) Manganese	c) Magnesium	d) Calcium				
123. Study of form, structure and composition of cells						
a) Cell biology b) Cytology	c) Cell theory	d) Cell chemistry				
124. Acid hydrolase is found in						
a) Golgi body b) ER	c) Lysosome	d) Vacuole				
125. Which of the following maintains continuity betw						
cells?	• •					
a) Cell Wall	b) Lecithin					
c) Cell vacuole	d) Cell membrane of v	woody plants				
126. Cytoskeleton is made up of	,	V 1				
a) Calcium carbonate granules	b) Callose deposits					
c) Cellulosic microfibrils	d) Proteinaceous filar	nents				
127. Which one of the following correctly represents t						
	1					









- 128. The mineral present in cell wall is
 - a) Na

b) Ca

c) K

d) Mn

- 129. Lipid bilayer is present in
 - a) Plasma membrane
- b) Ribosome
- c) Chromosome
- d) Nucleolus

- 130. Endoplasmic reticulum is in continuation with
 - a) Golgi body
- b) Nuclear wall
- c) Mitochondria
- d) Cell wall
- 131. Which of the following is the filler substance of the matrix of eukaryotic cell?
 - a) Pectin
- b) Cutin
- c) Lignin
- d) Suberin

- 132. Which of the following does not contain DNA?
 - a) Mitochondria
- b) Chloroplast
- c) Peroxisome
- d) Nucleus
- 133. The fluidity of membranes in a plant in cold weather may be maintained by
 - a) Increasing the number of phospholipids with unsaturated hydrocarbon tails
 - b) Increasing the proportion of integral proteins
 - c) Increasing concentration of cholesterol in membrane
 - d) Increasing the number of phospholipids with saturated hydrocarbon tail
- 134. In a double helix of DNA molecule of 10 coils, if there are 30 adenine nitrogen bases, what is the number of guanine nitrogen bases?
 - a) 30

b) 60

c) 70

- d) 80
- 135. The study related to the structure and function of a cell is called
 - a) Physiology
- b) Cytology
- c) Histology
- d) Cellology

- 136. Cell theory was proposed by
 - a) Virchow

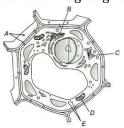
b) Schleiden and Schwann

c) Robert Hooke

- d) Barbara McClintock
- 137. Pits present in the wall of plant cells helps to produce a protoplasmic continum, called...... amongst cells
 - a) Apoplast
- b) Symplast
- c) Osmosis
- d) None of these

- 138. Main component of ribosome are
 - a) DNA and RNA
- b) RNA and protein
- c) DNA and protein
- d) Protein and lipids

- 139. Statements
 - I. The four nucleotide bases are not necessarily present in DNA in exact equal proportions.
 - II. The total amount of purines are equal to the total amount of pyrimidines.
 - III. DNA ligase enzyme act to hydrolyse or breakdown a polynucleotide chain into its component nucleotides.
 - IV. Nuclease enzymes are capable of restoring an intact DNA duplex.
 - Of the above statements
 - a) II is correct, but I, III and IV are wrong
- b) I and II are wrong but III and IV are correct
- c) I, II and III are correct but IV is wrong
- d) I and II are correct but III and IV are wrong
- 140. The following diagram shows some of the missing structures in a plant cell (A-E). Identify the structures



a) A-Plasmodesmata, B-Rough endoplasmic retic	~			
b) A-Desmosome, B-Rough endoplasmic reticulum, C-Golgi apparatus, D-Mitochondrion, E-Ribosomes				
c) A-Plasmodesmata, B-Smooth endoplasmic ret	iculum, C-Golgi apparatus, i	D-Mitochondrion, E-Ribosomes		
d) A-Tight junction, B-Rough endoplasmic reticul	lum, C-Golgi apparatus, D-N	Mitochondrion, E-Ribosomes		
141. Which is not true about spherosomes?				
a) Arise from ER	b) Related to fat			
c) Single membrane bound structure	d) Involved in photore	espiration		
142. Elaioplasts store				
a) Starch	b) Proteins			
c) Fats	d) Essential amino aci	ds		
143. Which of the following is the function of cytoskel	eton?			
a) Intracellular transport	b) Maintenance of cell	shape and structure		
c) Support of the organelles	d) All of the above			
144. Vital stains are employed to study				
a) Living cells b) Frozen tissues	c) Fresh tissues	d) Preserved tissues		
145. Which one of the following is not a plastid?				
a) Mitoplast b) Chromoplast	c) Chloroplast	d) Leucoplast		
146. Which of these is wrongly matched?				
a) Chloroplasts - Chlorophyll	b) Elaioplasts - S	tarch		
c) Chromoplasts - Carotenoids		Carbohydrates		
147. In DNA structure, Nobel Prize was given to	, , ,	•		
a) Macria Wilkins b) Franklin	c) Pauly	d) Watson and Crick		
148. Phagocytosis and pinocytosis are collectively term				
a) Endocytosis b) Suspension feeding		d) Mucous trap		
149. The following ratio is generally constant for a giv	•	1		
a) A+G/C+T b) T+C/G+A	c) G+C/A+T	d) A+C/T+G		
150. Cell theory is not applicable for	, ,	, , , , , , , , , , , , , , , , , , , ,		
a) Bacteria b) Fungus	c) Algae	d) Virus		
151. In multicellular organisms, the 70 S ribosomes an	1 L . Ma P 1 L . 1 1 W			
a) Lysosomes	b) Mitochondria			
c) Nucleus	d) Endoplasmic reticu	lum		
152. Ribosomes are particles about 200Å units in diar				
protein and RNA respectively is	neter consisting or protein	and min the percentage of		
a) 60% and 40% b) 40% and 60%	c) 80% and 20%	d) 50% and 50%		
153. The term 'cytoplasm' and 'nucleoplasm' were giv	*	a) 50 % and 50 %		
a) Purkinje b) Strasburger	c) Brown	d) Flemming		
154. Which is not true about prokaryotes?	c) brown	d) Hemming		
a) DNA is complexed with histones	b) Well developed nuc	cleus absent		
c) Mesosome present	d) Mitochondria abser			
155. Nuclear membrane is continuous with	uj Mitochonaria absci	it.		
a) Rough endoplasmic reticulum	b) Smooth endoplasm	ic roticulum		
c) Cell membrane	d) Golgi bodies	ic reticulum		
-	uj Goigi Dodies			
156. Protein synthesis takes place in	a) Mitaahandria	d) Calai hadiaa		
a) Ribosome b) Chloroplast	c) Mitochondria	d) Golgi bodies		
157. Structure of nuclear membrane help in				
a) Organisation of the spindle				
b) Synapsis of homologous chromosome				
c) Nucleo-cytoplasmic exchange of material				
d) Anaphasic separation of daughter chromosom	ie			
158. The ATP synthase of chloroplasts is like that of				

a) Peroxisomes	b) Golgi body	c) Microsomes	d) Mitochondria
159. Protoplast denotes the			
a) Whole	b) Half	c) One fourth	d) Double
160. An organism exclusively			wing
a) DNA enclosed within t		b) Circular naked DNA	
c) Double-stranded DNA	-	d) Single-stranded DNA	-
161. Which of the following is	the correct representation	n of A, B and C in the given	figure of a chromosome?
C A			
a) A-Centromere, B-Satel	lite, C-Secondary constrict	tion	
b) A-Centromere, B-Satel	lite, C-Primary constrictio	n	
c) A-Centriole, B-Satellite	e, C-Primary constriction		
d) A-Centriole, B-Satellite	e, C-Secondary constriction	1	
162. In the DNA molecule,			
-		midine nucleotides is not a	lways equal
	, which run parallel in the		
	•	e varies with the organism	
d) There are two strands $3'\rightarrow 5'$, which run antiparallel-or	ne in $5'\rightarrow 3'$ direction and ot	ther in
163. The Z-DNA helix is left ha	inded and has a structure	that repeats every	
a) 2 base pairs	b) 3 base pairs	c) 4 base pairs	d) 4 base pairs
164. The inward movement of	fions into the cells is		
and the outward movem	ent is		
a) Influx, efflux		b) Efflux, influx	
c) Absorption, adsorption		d) Adsorption, absorption	
165. Go through the sectional	view of a mitochondrion s	howing the different parts	and identify the structures <i>A</i>
to E			
a) A-Outer membrane, B-	Inner membrane, C-Matri	x, D-Inter membrane space	e, E-Crista
b) A-Outer membrane, B-	Inner membrane, C-Inter-	membrane space, D-Matrix	x, E-Crista
c) A-Outer membrane, B-	Inner membrane, C-Matri	x, D-Crista, E-Inter membr	ane space
d) A-Outer membrane, B-	Inner membrane, C-Crista	ı, D-Matrix, E-Inter-membr	ane space
166. Centrioles arise			
a) From pre-existing cen	trioles	b) <i>de novo</i>	
c) From spherosome		d) From nuclear envelop	pe
167. If there are 120 adenine	molecules in a B-DNA doul	ole helical structure showi	ng 20 coils, what is the
number of pyrimidine nu	cleotides forming three hy	drogen bonds in it?	
a) 80	b) 100	c) 120	d) 140
168. Flocculation or coagulation			
a) Interchangeability bet	· ·		
b) Ability to scatter that l	-		
	ent of protoplasmic partic		
	to increase in size when th	ey lose charges	
169. Nucleolus is			

	a) Rounded structure four	nd in cytoplasm near nucle	us	
	b) Rounded structure insi	de nucleus and having r RN	A	
	c) Rod-shaped structure i	n cytoplasm near the nucle	us	
	d) None of the above	J 1		
170.	•	s loose their specialisation	is called	
	a) Differentiation	b) Undifferentiation	c) Dedifferentiation	d) Premitotic division
171.		g nitrogenous bases is seen		.,
_, _,	a) Adenine	b) Thymine	c) Uracil	d) Cytosine
172	Golgi complex works for	b) Thymme	c) orden	a) dy tobine
.,	a) Excretion	b) Respiration	c) Secretion	d) Reduction
173	Which statement is not tru		c) becretion	a) Reduction
175.	a) DNA is completed with	= *	b) Well-developed nucleus	s is absent
	c) Mesosome is present	mstones	d) Mitochondria is absent	3 13 absent
1 <i>71</i> .	Which is not correct accor	eding to Chargaff's rule?	u) Mitochonulia is absent	
1/4.	a) $A + T = C + G$	b) $A + G = C + T$	A + G	d) None of these
	a) A + 1 – C + G	DJATG-CTI	c) $\frac{A+G}{C+T}=1$	d) None of these
175	During DNA replication in	prokaryotes, DNA is ancho	0 1 1	
175.	a) Chromosome	b) Mesosome	c) Nucleolus	d) Ribosome
176	•	s of bacterial cell envelope	•	uj Kibosome
170.	a) Cell membrane \rightarrow glyco		13	
	b) Glycocalyx \rightarrow cell wall -	-		
	c) Glycocalyx \rightarrow cell members cell members consider the constant of the cons			
	d) Cell wall \rightarrow glycocalyx -			
177	What is true about $tRNA$?	7 cen membrane		
1//.		acid at ita 2' and		
	a) It binds with an amino			
	b) It has five double strange	_	siaa dan an maaaan gan DNA	
		d which recognises the ant		
170	· ·	in the three dimensional st	ructure	
1/8.	The endoskeleton of cell is	s made up of	la) Durata ula aus	
	a) Deutoplasm		b) Protoplasm	
4.50	c) Endoplasmic reticulum		d) Cell wall	
1/9.	Autonomic genome system		1) () 1 1 1 1 1 1 1 1	1.
	a) Ribosomes and Golgi bo		b) Golgi bodies and mitocl	
	c) Mitochondria and chlor	•	d) Chloroplasts and riboso	omes
180.	Choose the correct statem			
	I. Passive cells are larger in			
	II. Larger cells have lower			
	_	r cells are either cylindrica	l in shape or possess sever	al extensions of the cell
	membrane, like microvilli			
		all those cells, which are ac	•	
		nfoldings) occurs in transfe	er cells found in plants in th	e region of absorption or
	secretion of nutrients			
	Option containing all corre			
	a) I and IV	b) I, II, III and IV	c) I, III and II	d) I, II, III, IV and V
181.		rally and multiply more		
	a) Large	b) Small	c) Convex	d) Biconcave
182.		nembrane bound organelle	-	
	a) Nucleus	b) Centriole	c) Mitochondria	d) Vacuoles
183.	In prokaryotes, genetic ma	aterial is		
	a) Basically naked		b) Enveloped by a nuclear	membrane

c) Associated with histones	d) Linear				
184. Which of the character is not applicable to $tRNA$?					
a) It is the smallest of the RNAs	b) It acts as an adaptor fo	or amino acid			
c) It has a clover leaf like structure	d) It is the largest of the				
185. Choose the incorrect match.					
a) Nucleus – RNA	b) Lysosome – F	rotein synthesis			
c) Mitochondria – Respiration		Microtubules			
186. Which of the following is the site of lipid synthesis?					
a) Rough ER b) Smooth ER	c) Golgi bodies	d) Ribosome			
187. Which of the following cell organelles is rich in cata	· -	,			
a) Chloroplast b) Mitochondria	c) Golgi complex	d) Ribosome			
188. There are special proteins that help to open up DNA	· · ·	•			
protein are		p			
a) DNA ligase b) DNA gyrase	c) DNA polymerase-I	d) None of these			
189. Select the right option which relates to Schwann re		•			
I. He reported that cells have a thin outer layer whi					
II. Cell wall is a unique character of the plant cell	en is today known as plasm	a membrane			
III. Body of plants and animals are composed of cell	s and product of cells				
Choose the correct option from below	s and product of cens				
a) All are incorrect b) Only III is correct	c) All are correct	d) II and III are correct			
190. Within the cell, ribosomes are found in	c) All are correct	u) ii aliu iii are correct			
a) Cytoplasm					
b) Chloroplasts (in plants) and mitochondria	2				
c) Rough ER					
d) All of the above					
191. Which of the following characteristic is correct abo	ut cell of plant cells?				
191. Which of the following characteristic is correct abo a) Plays role in protection	ut cell of plant cells?				
191. Which of the following characteristic is correct aboa) Plays role in protectionb) Helps in cell-cell interaction	CATION				
191. Which of the following characteristic is correct aboa) Plays role in protectionb) Helps in cell-cell interactionc) Provides a barrier to undesirable macromolecule	CATION				
191. Which of the following characteristic is correct aboa) Plays role in protectionb) Helps in cell-cell interactionc) Provides a barrier to undesirable macromoleculed) All of the above	CATION				
 191. Which of the following characteristic is correct abo a) Plays role in protection b) Helps in cell-cell interaction c) Provides a barrier to undesirable macromolecule d) All of the above 192. Which one is single membrane cell organelle? 	CATION				
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 191. Which of the following characteristic is correct aboa a) Plays role in protection b) Helps in cell-cell interaction c) Provides a barrier to undesirable macromolecule d) All of the above 192. Which one is single membrane cell organelle? a) Endoplasmic reticulum c) Lysosomes 193. Middle lamella is composed of a) Carbohydrate b) Calcium pectate 194. When a molecule moves across a membrane independent 	b) Mitochondria d) Chloroplast c) Protein	the process is called			
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c) Chloroplast	d) Golgi bodies
iplication?	
c) Exonuclease	d) DNA polymerase
of eukaryotic cell?	
b) Ribosomes and r RNA	
J)DN/A JDN/A	
a) rkna and mkna	
c) 40S, 30S	d) 50S, 20S
d be later used in building	the plasma membrane. But it
htly different from the pro	tein made in the RER. The
nelle.	
c) R	d) C
C) D	u) c
c) Centrioles	d) Cell wall
ne studied the internal stru	ictures of the cent his work
c) Human cheek cells	d) Blood cells
•	•
-	coming of two straines is
, , ,	unwindacac)
u) Swielases (Helicase of	unwinuases)
h) Hamicallulacae callul	oce tubulin and lignin
	_
, ,	s, pecun and centiose
='	d) Muselana
C) EK	d) Nucleus
- 1 10003	
sorptive surface area.	
1 1 1 1	• 1
	eids.
•	
l	
t	
	iplication? c) Exonuclease of eukaryotic cell? b) Ribosomes and rRNA d) rRNA and mRNA c) 40S, 30S d be later used in building

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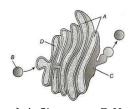
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			opius Luudution
d) Microtubular organisation and			
213. The surface of the endoplasmic re			D 01
a) Ribosome b) DNA		c) RNA	d) Glucose
214. Keeping in view the 'fluid mosaic			
statement is correct with respect	to the movement of	f lipids and proteins from o	one lipid monolayer to the
other (described as flip-flop mov	ement)?		
a) Both lipids and proteins can fli	p-flop		
b) While lipids can rarely flip-flop), proteins cannot		
c) While proteins can flip-flop, lip	oids cannot		
d) Neither lipids nor proteins can	flip-flop		
215. Which of the following statement	s are correct?		
I. Human RBC is about 7.0 μm in o	diameter		
II. Cytoplasm is the main arena of			
III. The shape of the cells may var		they perform	
IV. Various chemical reactions oc	=		tate
Choose the correct option			
a) I, III and IV b) I, IV	and II	c) I, II, III and IV	d) II, III and IV
216. In prokaryotic cells,	ana n	c) 1, 11, 111 and 17	aj II, III alia IV
a) Internal compartments are ab	cent	b) Nucleus is absent	
c) Ribosomes are 70S	CIIC	d) All of the above	
217. Which of the following statement	e rogarding cilia ic i	•	
a) The organised beating of cilia i			ano.
b) Cilia are hair-like cellular appe		es of callactoss the inellibr	alle
c) Microtubules of cilia are comp	1 74 1	.ll	al a mai ama taolanda a
d) Cilia contain an outer ring of n	me doublet microtu	ibules surrounding two sin	gie microtubules
218. Glycocalyx is associated with		a) Muslaus	d) Nucleasans
	sma membrane	c) Nucleus	d) Nucleosome
219. Cell theory was formulated by a) Schleiden and Schwann	US EDUC	AHON .	
a) bomoraon ana bonwann			
b) Rudolf Virchow			
c) Robert Brown			
d) Robert Hooke	. d:6:		
220. The main organelle involved in m	odification and rou	tine of newly synthesised p	proteins to their destination
is		15 1 1 1 1 1 1 1 1	
a) Mitochondria		b) Endoplasmic reticulum	l
c) Lysosome		d) Chloroplast	
221. Plasma membrane helps in			
a) Transportation of only water i	n and out of cell		
b) Protein synthesis			
c) Osmoregulation			
d) Nucleic acid synthesis			
222. Which of the following is a part o		stem of eukaryotic cell?	
	oroplasts	c) Mitochondria	d) Golgi complex
223. I. It is the extension of plasma me	mbrane into the cyt	toplasm	
II. It helps in cell wall formation,	-	= =	ses, increases the surface
area of plasma membrane and en	zymatic contents. It	t also helps in cytokinesis	
III. It I the characteristic of bacter	ial cells		
The above features are attributed	l to bacteria		
a) Plasmid b) Nuc	leoid	c) Mesosome	d) Pilus
224 Solenoid is a structure of			

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a) Nucleosomal organisation with 10nm thickness	1	
b) Condensed chromatin fibre with 30nm diamete	r	
c) Highly condensed form of chromatid with 300 r	nm thickness	
d) Well organised chromatid with 700 nm thickne	SS	
225. DNA strand which is formed continuously in 5' \rightarrow	3' direction is called	
a) Lagging strand b) Leading strand	c) Template strand	d) Stranded strand
226. Which of the following organelle is present in high	est number in secretory cell	ls?
a) Dictyosome b) ER	c) Lysosome	d) Vacuole
227. Ribose sugar is present in		
a) RNA polymerase, RNA and ATP	b) RNA only	
c) RNA polymerase and ATP	d) RNA and ATP	
228. All the statements are correct for prokaryotic cells		
 a) Few prokaryotic have cell walls without muram acid 		ed nucleus
 c) Prokaryotes shows a wide variety of shapes and functions 	d d) The organisation of the fundamentally similar	•
229. Which of the given statements are correct?		
I. Escherichia coli is a Gram (–) bacteria		
II. Bacillus subtilis is a Gram (+) bacteria		
III. Working of the Gram's stain in Gram (–) bacter	ria is due to high lipid conte	nt of the cell wall, which gets
dissolved in organic solvents like acetone		
Choose the correct option		
a) I and III b) II and III	c) I and II	d) I, II and III
230. Ribosomes are attached to endoplasmic reticulum	through	
a) Ribophorin b) Magnesium	c) Peptidyl transferase	d) tRNA
231. During replication of DNA, Okazaki fragments are		
a) 3'→5' b) 5'→3'	c) 5'→5'	d) 3'→3'
232. In eukaryotic cell, thylakoids, if present,	CATION	
a) Are grouped inside the chloroplasts	b) Lies freely in the cytop	plasm
c) Lies freely outside the cytoplasm	d) Grouped outside the c	ytoplasm
233. Difference between rough and smooth endoplasm	ic reticulum is that	
a) Rough has ribosomes	b) Smooth has ribosome	S
c) Smooth takes part in protein synthesis	d) Both has F ₁ - particles	
234. Condensation product of adenine, ribose and phos	phoric acid is named as	
a) Adenosine b) Adenylic acid	c) Adenine phosphate	d) None of these
235. The enzyme used to join the DNA fragments is		
a) Topoisomerase	b) Adenosine deaminase	•
c) DNA ligase	d) DNA polymerase	
236. Export firm of the body is		
a) Golgi bodies b) ER	c) Nucleus	d) Mitochondria
237. F ₁ particles are present in		
a) Chloroplast b) Mitochondria	c) Ribosome	d) Rough ER
238. Which of the following pairs is mismatched?		
a) Pilli – involved in locomotion		
b) Cell wall - protective, determines shape, prever	nts from bursting	
c) Glycocalyx – may be capsule or slime layer		
d) Flagella, pilli and fimbriae – surface structures o	of bacterial cell	
239. Chlorophyll in chloroplasts is located in		
a) Grana b) Pyrenoid	c) Stroma	d) Both (a) and (c)
240 Which one of the following is the correct labelling	of given structure of Golgi a	nnaratus?

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a) A-Cisternae, B-Vesicle,	C-cis face, D-trans face		
b) A-Cisternae, B-Vesicle,	C-trans face, D-cis face		
c) A-Tubules, B-Vesicle, C	E-trans face, D-cis face		
d) A-Vesicle, B-Cisternae,	C-cis face, D-trans face		
241. Ultimate unit of DNA is			
a) Nucleotide	b) Nucleosome	c) Nucleoside	d) Polynucleotide
242. DNA is denatured by			
a) Heat	b) Acid	c) DNA polymerase	d) Both (a) and (b)
243. Which sugar is present in	nucleic acid?		
a) Pentose	b) Hexose	c) Fructose	d) Glucose
244. In prokaryotic cells, which	h enzyme erases primer an	id fill gaps in DNA	
a) Helicase	b) Primase	c) DNA polymerase-II	d) DNA polymerase-I
245. The crystals of calcium ca	rbonate deposit in the cell	is called	
a) Aleurone	b) Crystalloid	c) Globoid	d) Core type
246. Cell membrane controls			
a) Exocytosis		b) Endocytosis	
c) Both (a) and (b)		d) Not controls movemen	t of substance
247. Adenosine monophospha	te is a	>	
a) Nucleoside of DNA	b) Nucleotide of DNA	c) Nucleoside of RNA	d) Nucleotide of RNA
248. Smooth endoplasmic reti	culum acts as a major site f	or the synthesis of	
a) Lipids and steroids	b) Proteins	c) Ribosomes	d) DNA
249. The nucleus is separated		m by nuclear membrane, w	hich is
a) Single-layered without		b) Double-layered with p	
c) Single-layered with po		d) Double-layered withou	
250. The Okazaki fragments in		,	•
a) Results in transcription			
-	5' direction and form repli	cation fork	
-	ve nature of DNA replication		
-	3' direction and explain 3'		
251. Highest number of enzym	-	•	
a) Lysosome	b) chloroplast	c) Mitochondria	d) Peroxisome
252. In eukaryotes, the cell wa	•		,
a) Primary and secondary			
b) Primary walls only	,		
c) Primary wall, middle la	amella and secondary		
d) None of the above	J		
253. Structural element of chro	omatin is		
a) Histone		b) Acid protein and DNA	
c) Nuclear matrix		d) Nucleosomes	
254. Enzyme catalase is seen i	n	,	
a) Lysosome	b) Spherosome	c) Peroxisome	d) All of these
255. Vacuoles are separated fr		,	,
a) Protoplast	b) Cytoplasm	c) Chloroplast	d) Tonoplast
256 Complete the given NCER		•	•

I. Cells that have membrane bound nuclei are called ...A...

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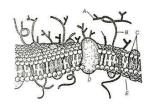
II. In bothB andC cells, cytoplasm is the main arena of cellular activities						
III. Cell that lack a membrane bound nucleus are calledD						
a) A-prokaryotic cells, B-plant cells, C-animal cells, D-eukaryotic cells						
b) A-eukaryotic cells, B-animal cells, C-plant cells, D-prokaryotic cells						
c) A-prokaryotic cells, B-plant cells, C-eukaryotic cells, D-animal cells						
d) A-eukaryotic cells, B-plant cells, C-prokaryotic cells, D-animal cells						
257. Which one of the following pairs of nitrogenous bas category mentioned against it?	es on nucleic acids, is wron _i	gly matched with the				
a) Thymine, uracil – Pyrimidines	b) Uracil, cytosine – Pyrii	midines				
c) Guanine, adenine – Purines	d) Adenine, thymine – Pu	rines				
258. Which one of the following is correctly matched?						
a) Frederick Griffith - Discovered the phenomenon of transformation						
b) Linus Pauling - Isolated DNA for the first tim	e					
c) Francis Crick - Proposed one gene-one polyp	eptide hypothesis					
d) George Beadle - Proposed the concept of inbo	rn errors					
259. A nucleoside is						
a) Purine/pyrimidine+phosphate	b) Purine/pyrimidine+su	ıgar				
c) Pyrimidine+purine+phosphate	d) Purine+sugar+phospl	nate				
260. The membrane potential of cell favours the						
a) Movement of cations into the cell	b) Movement of anions in	to the cell				
c) Action of a proton pump	d) Action of an electrogen	nic pump				
261. The prokaryotic cell does not contain						
a) Chromosome b) Mitochondria	c) Plasma membrane	d) Ribosome				
262. Histones are rich in						
a) Alanine and glycine	b) Lysine and arginine					
c) Histidine	d) Cysteine and tyrosine					
c) Histidine 263. Choose the incorrect option	d) Cysteine and tyrosine					
	d) Cysteine and tyrosine					
263. Choose the incorrect option	ATION					
263. Choose the incorrect option a) Centriole – Composed of tubulin	ATION					
263. Choose the incorrect optiona) Centriole – Composed of tubulinb) Centrosome – Serves as microtubule organising of	entre					
 263. Choose the incorrect option a) Centriole – Composed of tubulin b) Centrosome – Serves as microtubule organising of the composed of tubulin c) Centriole – Present in all plants and animals 	entre					
263. Choose the incorrect option a) Centriole – Composed of tubulin b) Centrosome – Serves as microtubule organising of the composed of tubulin c) Centriole – Present in all plants and animals d) Centrosome – Associated with nuclear membrane	e during interphase	d) 1, 2, 6 and 8 positions				
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263. Choose the incorrect option a) Centriole – Composed of tubulin b) Centrosome – Serves as microtubule organising of c) Centriole – Present in all plants and animals d) Centrosome – Associated with nuclear membrane defended in the process of tubulin by Centrosome – Associated with nuclear membrane defended in the process of the	tentre e during interphase c) 1, 3, 7 and 9 positions c) Six c) Gyloxysome about the properties of DNA o m c) Palade b) Cytoplasm d) Endoplasmic reticulum	d) Three d) All of these ? d) de Duve				
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	opius zaucatioi				
b) Is found in prokary	b) Is found in prokaryotes				
d) Modifies and packages proteins					
c) Ribosomes	d) Lysosome				
inner and an outer meml	orane				
ernal compartment, the t	hylakoid space bounded by the				
IA					
i iiitociioiiai ia					
h) Yeast					
uj liver cens					
c) Diatom	d) <i>Amoeba</i>				
c) Diatoni	uj Allioeba				
c) T Schwann	d) A v Leeuwenhoek				
•	uj A v Leeuweimoek				
	d) Nucleus				
c) Mitochondria	d) Nucleus				
a) Drotonlasm	d) None of these				
aryotes and many editary	otes:				
2					
1 (1 , 11 (
	<i>!</i>				
•	latum				
- ·					
	phosphate				
c) 3.4 nm	d) 2 nm				
•	d) Microsomes				
=	ucleotides in one of the chains				
	d) TCGAACTG				
•					
c) Thymine	d) Cytosine				
c) 55Å	d) 75Å				
ecules					
d) Proteins embedded in a carbohydrate bilayer					
c) RNA	d) Both (b) and (c)				
	d) Modifies and packa c) Ribosomes inner and an outer membernal compartment, the total An initochondria b) Yeast d) Liver cells c) Diatom c) T Schwann ssess DNA? c) Mitochondria c) Protoplasm aryotes and many eukary ample of eukaryotic cells b) Euglena viridis d) Paramecium caud eotide of RNA. b) Thymine + ribose d) Uracil + ribose + pately c) 3.4 nm c) Oxysomes tains. If the sequence of note the other chain will be c) AATTCCGG present at the short endice c) Thymine c) 55Å ecules				

289. Which chapter of the l	oook <i>Micrographia,</i> writte	n by Robert Hooke gave bi	rth to cell biology?
a) Observe XVII	b) Observe XVI	c) Observe XVII	d) Observe XV
290. Material of the nucleu	s is stained by		
a) Acidic dye	b) Basic dye	c) Neutral dye	d) Iodine
291. When DNA replication	starts		
a) The leading strand	produces Okazaki fragmen	ts	
b) The hydrogen bond	ls between the nucleotides	of two strands break	
c) The phosphodieste	r bonds between the adjace	ent nucleotides break	
d) The bonds between	the nitrogen base and deo	xyribose sugar break	
292. Cell adhesion and cell	recognition occur due to bi	ochemicals of cell membra	ine named
a) Lipids		b) Proteins	
c) Glycoproteins and g		d) Both (a) and (b)	
293. Width of the DNA mol		2	•
a) 15 Å	b) 20 Å	c) 25 Å	d) 34 Å
294. Which form of RNA ha	-		
a) rRNA	b) <i>hn</i> RNA	c) mRNA	d) tRNA
295. Which one of the follo		cell membrane?	
a) Cholesterol	b) Glycolipids	c) Proline	d) Phospholipids
296. Vacuole in a plant cell			
	d and contains storage prot		
•	d and contains water and ex	xcretory substance	
c) Lacks membrane a			
-	nd contains water and excr		
297. Which one of the follo			
a) sn RNA	b) hn RNA	c) 23 S r RNA	d) 5 S <i>r</i> RNA
298. The number of hydrog			
a) Two	b) Three	c) Four	d) Eight
299. Chemical constituent			D. Calabassa alka asala aka
a) Calcium carbonate	b) Calcium oxalate	c) Calcium nitrate	d) Calcium phosphate
300. Enzyme found functio	-	a) Ovidanadu etasa	d) Liagna
a) Acid phosphatase	b) Basic phosphatase	c) Oxidoreductase	d) Liases
301. Primary wall of eukar	·	it secondary wan isb ic	ayered
Here, A and B refer to a) A-three, B-more tha		b) A-two, B-single	
c) A-two, B-at least th		d) A-single, B-two	
302. <i>In vitro</i> synthesis of F		, ,	
a) Ochoa and Nirenbe		b) Ochoa and Kornber	יחי
c) Nirenberg and Khu	=	d) Kornberg and Nire	_
303. In animal cell, reserve		a) Rottiberg and Wife	nberg
a) Starch and fat	b) Only fat	c) Only starch	d) Glycogen and fat
304. The type of ribosomes		ej omy staren	aj diveogen una lac
a) 70S type	b) 80S type	c) 30S type	d) 50S type
305. In a DNA molecule, the			
a) 15%	b) 35%	c) 70%	d) 30%
•	•	•	ane from the list 1 to 7 given
along with it	 		



Components

- 1. Sugar
- 2. Protein
- 3. Lipid bilayer
- 4. Integral protein
- 5. Cytoplasm
- 6. Cell wall
- 7. External protein

The correct components are

a) A-1, B-2, C-3, D-4, E-5

b) A-2, B-1, C-3, D-4, E-5

c) A-1, B-2, C-3, D-6, E-4

d) A-1, B-2, C-3, D-7, E-5

307. Which of the following is not a characteristic of prokaryotic cells?

a) Circular DNA

b) Mesosome

c) Photosynthetic membrane system

d) Membrane bound organelles

308. Semi conservative replication of DNA was first demonstrated in

a) Drosophila melanogaster

b) Escherichia coli

c) Streptococcus pneumoniae

d) salmonella typhimurium

309. Consider the following statements and choose the correct options

- I. The endomembrane system, include plasma membrane, ER Golgi complex, lysosomes and vacuoles.
- II. ER helps in the transport of substamces, synthesis of proteins, lipoproteins and glycogen.
- III. Ribosomes are involved in protein synthesis.
- IV. Mitochondria help in oxidative phosphorylation and generation of ATP.

a) II, III and IV correct

b) I is correct

c) II is correct

d) III is correct

310. Lysosomes are reservoirs (store house) of

a) Hydrolytic enzymes

b) Secretory glycoproteins

c) RNA and protein

d) Fats or sugars or ATP

311. The nucleolus is the site of formation of

a) Spindle fibres

b) Chromosomes

c) Ribosomes

d) Peroxisomes

312. Which of the following four cell structures is correctly matched with the accompanying description?

a) Plasma membrane - Lipid bilayer, in which proteins are embedded

b) Mitochondria

- Bacteria like elements with inner membrane highly folded

c) Chloroplasts

- Bacteria like elements with inner membrane forming sacs

containing chlorophyll, found in plant cells and algae

d) Golgi apparatus

- Stacks of flattened vesicles

313. In eukaryotic cells, genetic material or DNA is organised into

a) Chromosomes

b) Chromatin

c) Chromosomes and chromatin

d) None of the above

314. In a DNA, percentage of thymine is 20%. What is the percentage of guanine?

a) 20%

b) 40%

c) 30%

d) 60%

315. The given diagram shows a chromosome



Which of the following data refer correctly to the chromosome?

N	o. of	No. of	No. of					
Č	entromere	Kinetochore	Arms					
a)	2	1	4	b)	1	2	4	
c)	2	2	4	d)	1	2	2	
Wŀ	Which of the following constitutes about 10-20 of total cellular RNA?							

- - a) mRNA
- b) rRNA
- c) tRNA
- d) hnRNA

- 317. Kappa particles are
 - a) Protozoans parasite whose multiplication is controlled by host metabolites
 - b) Viral particles capable of self perpetuation in host cytoplasm
 - c) Endosymbiont representing Gram negative bacteria species
 - d) Sub-microscopic granules formed by the folding of naked DNA
- 318. In prokaryotes, the process of replication is catalysed by the following enzymes. Identify which of the enzymes is best coordinate with role.
 - a) Helicase
- Joins the ends of DNA segments
- b) DNA polymerase-I
- Synthesises DNA
- c) DNA polymerase-II
- Erases primer and fills gaps
- d) Primase
- Synthesises RNA primers
- 319. A nucleosome is a portion of the chromonema containing
 - a) Only histones

b) Both DNA and histones

c) Only DNA

d) Both DNA and RNA

d) Nucleus and cell wall

- 320. Plant and animal cells, both have
 - a) Cell membrane and nucleolus

b) Cell membrane and cell wall

- c) Nucleolus and chloroplast
- 321. DNA sequence that code for protein are known as
 - a) Introns

b) Exons

c) Control regions

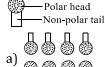
- d) Intervening sequences
- 322. In eubacteria, a celluler component that resembles eukaryotic cells is
 - a) Nucleus
- b) Ribosomes
- c) Cell wall
- d) Plasma membrance

- 323. Pits are formed on the cell wall is due to lack of
 - a) Cell plate

b) Primary wall material

c) Secondary wall material

- d) Middle lamellum
- 324. The four basic shapes of bacteria are
 - a) Amoeboid, elongated, biconcave and coccus
- b) Elongated, bacillus, biconcave and amoeboid
- c) Bacillus, coccus, vibrio and spirillum
- d) Bacillus, amoeboid, elongated and coccus
- 325. Which of the following elements is very essential for uptake and utilisation of Ca^{2+} and membrane function?
 - a) Phosphorus
- b) Molybdenum
- c) Manganese
- d) Boron
- 326. The lipid molecules present in plasma membrane have polar heads and non-polar tails (as shown in figure). Which option represents the correct arrangement of lipids in lipid bilayer?









- 327. Which is the initial step in mRNA maturation process?
 - a) Polyadenylation

b) 5' capping

c) Splicing

- d) Endonucleolytic cleavage
- 328. Cell organelle responsible for autolysis is
 - a) Dictyosome
- b) Lysosome
- c) Peroxisome
- d) Glyoxysome

329. Identify the palindromic sequence in th	ie following	•
a) $\frac{\text{GAATTC}}{\text{GAATTC}}$ b) $\frac{\text{GAATTC}}{\text{CTTUUG}}$	GAATTC	d) GAATTC
	$^{\rm c)}$ $\overline{\rm cuuaag}$	$\frac{G}{CTTAAG}$
330. The largest subunit of prokaryotic ribos	somes is	
a) 30S b) 40S	c) 50S	d) 60S
331. In RNA, which is absent?		
a) Adenine b) Guanine	c) Thymine	d) Cytosine
332. Most of the bacterial cell envelope cons	sists of	
a) Only glycocalyx		
b) A tightly bound three layered structu	ure	
c) The cell membrane		
d) Cell wall and cell membrane		
333. DNA acts as a template for synthesis of		
a) RNA b) DNA	c) Both (a) and (b)	d) Protein
334. Which one of the following has its own		
a) Mitochondria b) Dictyoson	ne c) Lysosome	d) Peroxisome
335. What is a genophore?		
a) DNA in prokaryotes	b) DNA and RNA in pro	karyotes
c) DNA and protein in prokaryotes	d) RNA in prokaryotes	
336. Select the double membrane bound cell	9	
a) Chloroplast b) Nucleus	c) Mitochondria	d) All of these
337. Fluid mosaic model was given by		
a) Beadle and Tatum b) Jacob and	Monod c) Singer and Nicolson	d) Watson and Crick
338. The main arena of various types of activ	vities of a cell is	
a) Plasma membrane b) Mitochon	drion c) Cytoplasm	d) Nucleus
339. In plants, vacuole contains		
a) Soil	b) Water and dissolved	substance
c) Cytoplasm	d) All of the above	
340. The process of removal of introns and j	oining of exons in called	
) m · · ·	1) C., 1! -!
a) Capping b) Tailing	c) Termination	d) Splicing
341. In chloroplasts, chlorophyll is present i	n the	a) Splicing
, ,, ,	n the	d) Stroma
341. In chloroplasts, chlorophyll is present i	n the mbrane c) Thylakoids	d) Stroma
341. In chloroplasts, chlorophyll is present it a) Outer membrane b) Inner men 342. 'Omnis cellula-e-cellula' (all cells arise a) Schleiden and Schwann	n the mbrane c) Thylakoids es from pre-existing cells). This conce b) Virchow	d) Stroma
341. In chloroplasts, chlorophyll is present it a) Outer membrane b) Inner men 342. 'Omnis cellula-e-cellula' (all cells arise a) Schleiden and Schwann c) Robert Brown	n the mbrane c) Thylakoids es from pre-existing cells). This conce b) Virchow d) Leeuwenhoek	d) Stroma
341. In chloroplasts, chlorophyll is present it a) Outer membrane b) Inner men 342. 'Omnis cellula-e-cellula' (all cells arise a) Schleiden and Schwann	n the mbrane c) Thylakoids es from pre-existing cells). This conce b) Virchow d) Leeuwenhoek karyote is in	d) Stroma
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341. In chloroplasts, chlorophyll is present it a) Outer membrane b) Inner men 342. 'Omnis cellula-e-cellula' (all cells arise a) Schleiden and Schwann c) Robert Brown 343. Difference between prokaryote and eule	n the mbrane c) Thylakoids es from pre-existing cells). This conce b) Virchow d) Leeuwenhoek karyote is in b) Cell shape	d) Stroma pt was given by
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341. In chloroplasts, chlorophyll is present it a) Outer membrane b) Inner men 342. 'Omnis cellula-e-cellula' (all cells arise a) Schleiden and Schwann c) Robert Brown 343. Difference between prokaryote and eula a) Cell size c) Chemical composition of protoplasm 344. Unicellular microscopic organism were a) Pasteur b) Priestley 345. Which of the following is characteristic a) One non-polar head and two polar tab) One polar head and two non-polar tac) Two non-polar heads and one polar d) Two polar heads and one non-polar 346. Cell membrane is made up of a) Protein c) Lipids	n the mbrane c) Thylakoids es from pre-existing cells). This conce b) Virchow d) Leeuwenhoek karyote is in b) Cell shape d) Organisation of nucl e first studied by c) Robert Hooke of phospholipids of plasma membran ails ails tail b) Cellulose d) Lipids, carbohydrate	d) Stroma pt was given by ear material d) Leeuwenhoek e?
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		opius zaucatioi
348. Which of the following statement is incorrect abo	=	
a) They are extrachromosomal DNA	b) They are used in gen	
c) They help in the replication of nucleoid		lar and confer certain unique
		rs to some bacteria like
	resistance to antibiot	
349. <i>E. coil</i> about to replicate was placed in a medium	_	
it was made to replicate in a normal medium. Wh	-	
a) Both the strands of DNA will be radioactive	b) One strand radioactive	ve
c) Each half strand radioactive	d) None is radioactive	
350. Golgi body arises from		
a) Plasma membrane b) ER	c) Vacuole	d) Chloroplast
351. Telomerase is an enzyme, which is a		
a) Repetitive DNA b) RNA	c) Simple protein	d) Ribonucleoprotein
352. In Neisseria gonorrhoeae, fimbriae takes part ir	nA, while in <i>Escherichia</i>	coli it helps inB
Choose appropriate options for A and B to comple	ete the given statement	
a) A-conjugation; B-attachment		
b) A-attachment; B-conjugation		
c) A-movement only; B-conjugation		
d) A-attachment; B-movement only		
353. Which of the following statements are correct?		
I. Nerve cells are the smallest of all cells		
II. Bacteria are 3-5 μm in length		
III. The largest cell is the egg of an ostrich		
IV. Mycoplasma is the smallest cell (0.3 µm in len	gth)	
Choose the correct option	64.7)	
a) I, II, III and IV b) Only II	c) Only I	d) II, III and IV
354. The haploid content of human DNA is	c) only i	a) II, III alia IV
a) 3.2×10^9 bp b) 3.3×10^9 kbp	c) $4.6 \times 10^6 \text{ bp}$	d) 49502hn
		d) 48502bp
355. Which is the common point of similarity between		ugan malagulag
a) Both are double stranded	b) Both have identical s	_
c) Both have identical pyrimidine bases	d) Both are polymers of	nucleotides
356. In prokaryotic cell, flagella, if present are		
I. single-stranded		
II. double-stranded		
III. without differentiation of axoneme and sheath	1	
IV. with differentiation of axoneme and sheath		
Choose the correct option		
a) Only I b) Only III	c) I and II	d) I and III
357. Meselson and Stahl experiment on semi-conserva	•	
a) 60% radioactive, 50% non-radioactive	b) 50% non-radioactive	
c) 50% radioactive	d) None of the above	
358. Which of the following is the site of lipid synthesi	s?	
a) Rough ER b) Smooth ER	c) Golgi bodies	d) Ribosome
359. During endocytosis, the cell		
a) Divides its cytoplasm during mitosis		
b) Digests itself		
c) Engulfs and internalises materials using its me	embrane	
d) Enables the extracellular digestion of large mo		
360. DNA repairing is done by		
	c) DNA-nolymerase-II	d) DNA-nolymerase-I

361. Which of the following statements are correct about prokaryotic cells?			
I. DNA lies freely in the cytoplasm, not associated wi	th any organelle		
II. The amount of DNA do not change as there are no haploid and diploid stages			
III. Transcription and translation occurs in the cytop	lasm		
IV. Protein synthesis occurs only in the cytoplasm			
Correct option regarding the above statement is			
a) I, II and III b) I and II	c) Only I	d) I, II, III and IV	
362. The main function of lysosome is			
a) Sexual reproduction	b) Extracellular digestion		
c) Intracellular digestion	d) Both (b) and (c)		
363. Which of the following cell(s) is/are exceptions to the	ie cell theory?		
a) Viriods b) Prions	c) Viruses	d) All of these	
364. Naked DNA without histones is found in			
a) Prokaryotes b) Eukaryotes	c) Protozoa	d) Coelenterate	
365. Which is properly paired?			
a) Golgi apparatus – Breaking of complex n	nacromolecules		
b) Endoplasmic reticulum - Protein synthesis			
c) Chloroplast – Photosynthesis			
d) Mitochondria – Oxidative phosphoryla	ntion		
366. Which of the following statement is correct about the	e cell wall of prokaryotic ce	ell?	
I. Cell wall, if present, possesses muramic acid			
II. Cell wall, if presents, possesses acitic acid			
III. Cell wall is always absent			
The correct options is			
a) Only I b) Only II	c) I, II and III	d) Only III	
367. Mechanical support, enzyme circulation, protein syn	thesis and detoxification o	f drugs are the functions of	
a) ER b) Ribosomes	c) Dictyosomes	d) Chloroplast	
368. An organelle with an internal cross section showing characteristic $9+2$ morphology is the			
a) Microtubule b) Microfilament	c) Cilium or flagellum	d) Cytoskeleton	
369. The RNA primer is used in			
a) Translation b) Replication	c) Conjugation	d) Transformation	
370. Genes present in the cytoplasm of eukaryotic cells an	re found in		
a) Mitochondria and inherited via egg cytoplasm			
b) Lysosomes and peroxisomes			
c) Golgi bodies and smooth endoplasmic reticulum			
d) Plastids are inherited <i>via</i> male gamete			
371. Which of the following pairs lack the unit membrane			
a) Nucleus and ER	b) Mitochondria and chlo	=	
c) Ribosome and nucleolus	d) Golgi body and lysosor	ne	
372. Which of the following statements are correct?			
I. Mycoplasmas are the smallest cells			
II. Nerve cells are some of the longest cells			
III. Ribosomes are non-membrane bound organelles		ells	
IV. The cytoplasm is the main arena of cellular activi		15 * * * * * * * * * * * * * * * * * * *	
a) I, II and III b) I and II	c) II and III	d) I, II, III and IV	
373. Schwann proposed a cell theory according to which	C		
a) Each cell of the body posseses the same genetic in		11 (1 1	
b) All life activities of the organisms are present in miniature form in each and every cell of its body			
c) Bodies of animals and plants are made up of cells and their products			
d) A new cell always develops by the division of pre-existing cells			

374. The length of DNA having	g 23 base pairs is		
a) 78Å	b) 78.4Å	c) 74.8Å	d) 78.2Å
375. Which of the following su	bunits of ribosome is comp	posed of 23 S r RNA and a 5	SmRNA + 32 different
proteins?			
a) 50S	b) 70S	c) 30S	d) 60S
376. Which of the following sta		,	•
	n is composed of mainly th	ree types of cells	
_	are stem cells and are unsp		ly possesses the power of
division			y possesses and possess or
	e post-mitotic cells and are	specialised to perform spe	cific functions
	are differentiated cells whi		
function of division	are annerentiated tens win	en revert to anameremate	a state to take over the
a) I, II and III	b) Only I	c) Except I	d) I, II, III and IV
377. Ribosomes may also be ca	•	су плесри і	aj i, ii, iii ana iv
a) Microsome	b) Dictyosome	c) Ribonucleoprotein	d) Oxysomes
378. The scientist who was aw		· ·	, •
		•	· •
a) Mendel	b) Calvin	c) Khurana	d) Ochoa
379. Which of the following st			orrect?
-	s permeable to all kinds of		
	ectron transfer chain are en		orane
-	n highly convoluted formin	g a series of infoldings	
d) The outer membrane r			
380. In a prokaryotic cell, the	The state of the s	>	
a) > 1	b) < 1	c) = 1	d) None of these
381. Mitochondria are semi-au	itonomous as they possess		
a) DNA	2	b) DNA and RNA	
c) DNA, RNA and riboson		d) Protein	
382. Many cells function prope	erly and divide mitotically ϵ	even though they do not ha	ve
a) Plasma membrane	b) Cytoskeleton	c) Mitochondria	d) Plastids
383. In a DNA segment having	six coils, there are 22 nitro	gen base pair linked by two	o hydrogen bonds. How
many cytosine bases are	found in that segment?		
a) 22	b) 38	c) 44	d) 76
384. The chromosome in which	h centromere lies slightly a	way from the middle of the	chromosome resulting in
one shorter arm and one	longer arm, is called		
a) Metacentric	b) Submetacentric	c) Acrocentric	d) Telocentric
385. A cell organelle that is ex-	ceptionally rich in hydrolyt	ic enzymes is	
a) Ribosome		b) Endoplasmic reticulum	1
c) Lysosome		d) Mitochondria	
386. Term basal body is associ	iated with the development		
a) Cilia and flagella	b) Cell plate	c) Phragmoplast	d) Kinetochore
387. Sequence of DNA (non- co	•	,	,
a) Exon	b) Intron	c) Cistron	d) None of these
388. Tonoplast is a membrane		o, 0.0.1. 0.1.	.,
a) Ribosome	b) Mitochondria	c) Vacuole	d) Cytoplasm
389. Lipid molecules in plasma	•	•	a) dy topiasiii
a) Scattered	b) Series	c) Alternate	d) Head parallel
390. F ₁ -particles comprise of	by beries	o, memilie	a, rieda paranei
a) Head and base	b) Base and stalk	c) Head and stalk	d) Head, base and stalk
391. Which of the following st	•		•
Schwann?	acement was not explained	in the cen theory given join	ing by beinciden and

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a) All living organisms are composed of cells and the	_	•	
b) Cell is the structural and functional unit of living organisms			
c) Formation of new cells			
d) None of the above			
392. For the study of structure of nucleus, the best cell is			
a) Cell in the interphase	b) Cell in the late prophas		
c) Cell in the divisional phase	d) Cell in the meiotic pha	se	
393. Cell organelle without a membrane is			
a) Mitochondria b) Liposomes	c) Ribosome	d) Microsome	
394. Nobody can have life if its constituent parts are not f		rved by	
a) Robert Hooke b) Mathias Schleiden	c) Lamarck	d) Louis Pasteur	
395. If the cell wall of a cell is removed, the remaining is of	called		
a) Etioplast b) Aleuroplast	c) Amyloplast	d) Protoplast	
396. The statement <i>omnis cellula e cellula</i> of Rudolf Viro	chow has been taken from	his book	
a) Cellular Pathology b) Cellular Potency	c) Micrographia	d) Scala Naturae	
397. Carrier ions like Na ⁺ facilitate the absorption of subs	stances like		
a) Amino acids and glucose	b) Glucose and fatty acids	5	
c) Fatty acids and glycerol	d) Frustose and some am	ino acids	
398. The transport of metabolities across the biomembra	ne occurs through		
a) Passive transport			
b) Active transport			
c) In case of bacteria, plasma membrane forms exten	nsions to form special mem	nbranous structure called	
mesosomes	50		
d) All of the above			
399. The number of base pairs per helical turn in Z-DNA i	S		
a) 10 b) 11	c) 12	d) 13	
400. Important site for formation of glycoproteins and gly		,	
a) Golgi apparatus b) Plastid	c) Lysosome	d) Vacuole	
401. Which of the following represents prokaryotic cells?		,	
a) PPLO b) Mycoplasma	c) Bacteria	d) All of these	
402. Movement of cytoplasm around the vacuole in the ce		,	
a) Circulation b) Rotation	c) Somersault	d) Regulation	
403. Which of the following statement is not correct for p	•) &	
a) Prokaryotes have no chromosomes and therefore	=	e similar in structure to	
lack DNA	eukaryotic flagella		
c) Because prokaryotes do not contain organelles,	d) All of the above		
they cannot perform photosynthesis or carry out	., 01 010 010 010		
cellular respiration			
404. DNA can be formed by			
a) Transaminase	b) Lyases		
c) RNA dependent DNA polymerase	d) All of the above		
405. Select the correct fundamental features of cell theory	•		
I. All cells are basically alike in their chemistry and p			
II. All living organisms are composed of cells and the			
	=	and a placma membrane	
III. Each cell is made of a small mass of protoplasm c with or without a cell wall outside	ontaining a nucleus inside	and a piasma membrane	
	uition and interaction of it-	constituent calls	
IV. Activities of an organism are the sum total of acti	vicies and interaction of its	constituent cens	
Correct option regarding the statement is	b) II and III		
a) All are incorrect	b) II and III are correct		
c) II, III and IV are correct	d) All are correct		

				Opias Laacane
406	. Prokaryotic ribosome has			D 600
407	a) 80S The plasmid DNA conform	b) 70S	c) 40S	d) 60S
407	I. resistance to antibiotics	=	to bacteria in which they a	re iouna, i ms include
	II. no resistance to antibio			
		sformation with foreign D	NΛ	
	The correct option is	Siormation with foreign D	INA	
	a) Only I	b) Only II	c) I and III	d) II and III
408	. The cell as a basic unit of	•	5	uj ii anu iii
100	a) Aristotle	on accure of fiving tillings w	b) Robert Hooke	
	c) Schleiden and Schwani	n	d) Gregor Mendel	
409	. What is the common betw			
107	a) Presence of pigments	veen emoropiases, em omo	b) Possession of thylakoi	ds and grana
	c) Storage of starch, prote	eins and linids	d) Ability to multiply by a	-
410	. Wall of eukaryotic cell (fu	=		Thiston like process
110	a) α, 1-4 acetyl glucosami		b) β, 1-4 acetyl glucosami	ine
	c) α, β, 1-4 acetyl glucosai		d) Acetyl glucosamine	
411	. Suicidal bags are		aj neceji gracosamme	
	a) Lysosomes	b) Golgi bodies	c) Ribosomes	d) Chloroplast
412	, ·		lded 18% cytosine. What w	=
112	other bases in this sample		idea 1070 cy tosinici What W	outa be the percentage of
	a) T- 32%, A-32%, G-18%		b) T-32%, A-18 %, G-32%	, n
	c) T-18%, A-32%, G-32%		d) T-40%, A-22%, G-20%	
413	. Which of the following is	The second secon		
110	a) Storage	not a randuon or vacable in	b) Waste disposal	
	c) Cell elongation and pro	otection	d) Production of the hydr	rogen peroxide
414	. Inner membrane of mitoc		a) rroudenon or one ny ar	ogen per om de
	a) Cisternae	b) Cristae	c) Thylakoids	d) Lamellae
415	. Plasma membrane is mad			.,
	a) Lipid, protein and wate		b) Lipid, protein and man	iganese
	c) Lipid and carbohydrate		d) Lipid, protein and carl	•
416	. The diameter of Z-DNA is		,	,
	a) 34Å	b) 20Å	c) 18Å	d) 45Å
417	-		genomic DNA. These smalle	
	a) Plasmids	b) Mesosome	c) Nucleoid	d) None of these
418	. Glyoxylate cycle occurs in	•	,	,
	a) Lysosomes	b) Ribosomes	c) Glyoxysomes	d) Peroxisomes
419		=	n and attached to a particu	= = = = = = = = = = = = = = = = = = = =
	definite place is		•	
	a) Plasmid	b) Karyolymph	c) Nucleolus	d) Nuclear reticulum
420	. During replication of a ba		synthesis starts from a repl	-
	a) RNA primers are involv	ved	b) Is facilitated by telome	rase
	c) Moves in one direction		d) Moves in bi-directiona	
421	. Nucleotide consists of		•	·
	a) Phosphate only		b) Phosphate and sugar o	nly
	c) Phosphate, sugar and r	nitrogen base	d) Phosphate and nitroge	n base only
422	. The 'Power house' of cell		<u> </u>	-
	a) Mitochondria	b) Lysosome	c) Ribosome	d) Golgi complex
423	. Bacterial flagellum consis	ts of all of the following co	mponents except	
	a) Microtubule	b) Filament	c) Basal body	d) Hook

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a) Hemicellulose	b) Muramic acid	c) Calcium pectate	d) Phosphoglycerides
425. Identify the given figure			
Cisternae			
a) RER	b) SER	c) GB	d) None of these
426. RNA is not found in			
a) Chromosome	b) Plasmalemma	c) Nucleolus	d) Ribosome
427. Two animal cells are into	erconnected by		
a) Plasmodesmata	b) Cell Wall	c) Desmosome	d) Plasma membrane
428. One of the nucleotides of	f DNA is		
a) Adenine			
b) Deoxyadenylic acid			
c) Adenosine			
d) Deoxyuridine phosph	ate		
429. Golgi apparatus			
I. transports and modifie	es material.		
II. Secrete mucin in resp	iratory tract.		
III. Secretes slime in inse	ectivorous plants	>	
What is correct?	131.		
a) I is incorrect, but II ar	d III are correct	b) II is incorrect, but I and	l III are correct
c) II and III are incorrect		13.37	_
		d) None incorrect all corr	ect
430. If an isolated strain of D		147701	
430. If an isolated strain of DI a) It changes into RNA	NA is kept at 80-90°C, then,	b) It breaks into two fragi	nents
430. If an isolated strain of DIa) It changes into RNAc) It breaks into many fr	NA is kept at 80-90°C, then, agments	b) It breaks into two fragi d) It uncoils and the two s	nents strands separate
430. If an isolated strain of DIa) It changes into RNAc) It breaks into many fr431. Which one of the following	NA is kept at 80-90°C, then, agments	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective	nents strands separate
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata	NA is kept at 80-90°C, then, agments ng structures between two	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective b) Plastoquinones	nents strands separate
 430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulum 	NA is kept at 80-90°C, then, agments ng structures between two	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective	nents strands separate
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulum 432. Coupling factor 'F' is four	NA is kept at 80-90°C, then, agments ng structures between two m	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective b) Plastoquinones d) Plasmalemma	nents strands separate e transport pathway?
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulum 432. Coupling factor 'F' is four a) Stroma	NA is kept at 80-90°C, then, agments ng structures between two m d in b) Matrix	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids	nents strands separate
 430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulum 432. Coupling factor 'F' is found a) Stroma 433. Which of the following endoperation 	NA is kept at 80-90°C, then, agments ng structures between two m nd in b) Matrix nzymes helps in crossing pl	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane?	ments strands separate e transport pathway? d) Ribosomes
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulur 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease	NA is kept at 80-90°C, then, agments ng structures between two m nd in b) Matrix nzymes helps in crossing pl b) Pepsin	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids	nents strands separate e transport pathway?
 430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulured 432. Coupling factor 'F' is four a) Stroma 433. Which of the following error a) Protease 434. Which one is referred to 	NA is kept at 80-90°C, then, agments ng structures between two m nd in b) Matrix nzymes helps in crossing pl b) Pepsin as soluble RNA?	b) It breaks into two fragi d) It uncoils and the two s adjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase	ments strands separate e transport pathway? d) Ribosomes d) Permease
 430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulured 432. Coupling factor 'F' is four a) Stroma 433. Which of the following error a) Protease 434. Which one is referred to a) mRNA 	NA is kept at 80-90°C, then, agments ng structures between two m nd in b) Matrix nzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA	ments strands separate e transport pathway? d) Ribosomes
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 430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulured 432. Coupling factor 'F' is four a) Stroma 433. Which of the following error a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribornian 	NA is kept at 80-90°C, then, agments ng structures between two m b) Matrix nzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA onot true for a eukaryotic cosome present in the mitoch	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria	ments strands separate e transport pathway? d) Ribosomes d) Permease
 430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulured 432. Coupling factor 'F' is fourally stroma 433. Which of the following error and any error and error a	NA is kept at 80-90°C, then, agments agments agment mod in b) Matrix anzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA sont true for a eukaryotic cosome present in the mitochesome present in the cytoplass	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria	ments strands separate e transport pathway? d) Ribosomes d) Permease
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulur 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribot b) It has 80S type of ribot c) Mitochondria contain	NA is kept at 80-90°C, then, agments agments agment wo me had in b) Matrix arzymes helps in crossing ple b) Pepsin as soluble RNA? b) tRNA anot true for a eukaryotic cosome present in the mitochesome present in the cytoplass circular DNA	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria	ments strands separate e transport pathway? d) Ribosomes d) Permease
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulus 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribo b) It has 80S type of ribo c) Mitochondria contain d) Membrane bound org	NA is kept at 80-90°C, then, agments agments agments and in b) Matrix nzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA anot true for a eukaryotic cosome present in the mitochesome present in the cytoplas circular DNA anelles are present	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria	ments strands separate e transport pathway? d) Ribosomes d) Permease
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the following a) Plasmodesmata c) Endoplasmic reticulur 432. Coupling factor 'F' is four a) Stroma 433. Which of the following error a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribor b) It has 80S type of ribor c) Mitochondria contain d) Membrane bound org 436. Secondary cell wall grow	NA is kept at 80-90°C, then, agments ng structures between two m nd in b) Matrix nzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA s not true for a eukaryotic cosome present in the mitoch esome present in the cytoplas circular DNA anelles are present	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria	ments strands separate transport pathway? d) Ribosomes d) Permease d) ssRNA
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulum 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribo b) It has 80S type of ribo c) Mitochondria contain d) Membrane bound org 436. Secondary cell wall grow a) Deamination	NA is kept at 80-90°C, then, agments ng structures between two m nd in b) Matrix nzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA s not true for a eukaryotic cosome present in the mitochesome present in the cytoplass circular DNA anelles are present vs by b) Calcicole	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria	ments strands separate e transport pathway? d) Ribosomes d) Permease
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulus 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribo b) It has 80S type of ribo c) Mitochondria contain d) Membrane bound org 436. Secondary cell wall grow a) Deamination 437. Fat is stored in the plant	NA is kept at 80-90°C, then, agments agments agments and in b) Matrix arzymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA anot true for a eukaryotic cosome present in the mitoch asome present in the cytoplas circular DNA anelles are present as by b) Calcicole cell in	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondria asm	ments strands separate transport pathway? d) Ribosomes d) Permease d) ssRNA d) None of these
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulur 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribo b) It has 80S type of ribo c) Mitochondria contain d) Membrane bound org 436. Secondary cell wall grow a) Deamination 437. Fat is stored in the plant a) Lysosome	agments agments agments agments agments agments and in b) Matrix azymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA anot true for a eukaryotic cosome present in the mitochesome present in the cytoplas circular DNA anelles are present as by b) Calcicole cell in b) Spherosome	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondriansm c) Apposition c) Microsome	ments strands separate transport pathway? d) Ribosomes d) Permease d) ssRNA d) None of these d) Peroxisome
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulum 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribo b) It has 80S type of ribo c) Mitochondria contain d) Membrane bound org 436. Secondary cell wall grow a) Deamination 437. Fat is stored in the plant a) Lysosome 438. If a DNA sequence is san	agments agments agments agments agments agments and in b) Matrix azymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA anot true for a eukaryotic cosome present in the mitochesome present in the cytoplass circular DNA anelles are present as by b) Calcicole cell in b) Spherosome as as that of a mRNA copy the	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondriansm c) Apposition c) Microsome and is translated into protein	ments etrands separate e transport pathway? d) Ribosomes d) Permease d) ssRNA d) None of these d) Peroxisome n, it is called
430. If an isolated strain of DI a) It changes into RNA c) It breaks into many fr 431. Which one of the followi a) Plasmodesmata c) Endoplasmic reticulur 432. Coupling factor 'F' is fou a) Stroma 433. Which of the following e a) Protease 434. Which one is referred to a) mRNA 435. Which of the following is a) It has 80S type of ribo b) It has 80S type of ribo c) Mitochondria contain d) Membrane bound org 436. Secondary cell wall grow a) Deamination 437. Fat is stored in the plant a) Lysosome	agments agments agments agments agments agments agments and in b) Matrix azymes helps in crossing pl b) Pepsin as soluble RNA? b) tRNA anot true for a eukaryotic consome present in the mitoches of a circular DNA anelles are present as by b) Calcicole cell in b) Spherosome as that of a mRNA copy the	b) It breaks into two fraging d) It uncoils and the two stadjacent cells is an effective b) Plastoquinones d) Plasmalemma c) Thylakoids asma membrane? c) Dehydrogenase c) rRNA ell? ondriansm c) Apposition c) Microsome and is translated into protein c) Intron	ments strands separate transport pathway? d) Ribosomes d) Permease d) ssRNA d) None of these d) Peroxisome

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424. Middle lamella is mainly composed of

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	re rapidly than the eukary			
III. They are present	ed by bacteria, BGA myco	plasma and PPLO (Plet	ıra Pneumonia Like Organism)	
a) II and I	b) II and III	c) I and III	d) I, II and III	
440. Which of the following	ng are properties of reser	ved cells?		
a) They are different	tiated and they have capac	city of cell division		
b) They are undiffer	entiated and they do not h	nave capacity of cell div	rision	
c) They are different	tiated and they do not hav	e capacity of cell divisi	on	
d) They are undiffer	entiated and they have ca	pacity of cell division		
441. The thylakoid in chlo	oroplast are arranged as			
a) Interconnected di	sc b) Interconnected s	sacs c) Stacked disc	s d) None of these	
442. Consider the following		the correct options	,	
	-		complex, lysosomes and vacuole	es
	ansport of substances, syn	_		
-	volved in protein synthes	= = =		
	ps in oxidative phosphory		of ATP	
a) II, III and IV	b) Only I	c) Only II	d) Only III	
	, ,		n below from the list I to VIII giv	ven
along with it			8	
Commonata		à		
Components	n dwin			
I. Cristae of mitocho	naria of mitochondria	UCATION		
III. Cytoplasm	of initochonuria	OCHILOI		
IV. Smooth endoplas	mic roticulum			
V. Rough endoplasm				
VI. Mitochondrial ma				
VII. Ribosome	tti ix			
VIII. Nucleus				
The correct compone	ents are			
A B C D E				
a) VIII V VII III I	V b) I IV VII VI	III c) VI V IV	VII I d) V I I II I	V
444. Membrane that cove		,		•
a) Tonoplast	b) Tonoplasm	c) Jacket	d) Cell membrane	
445. Read the given states	*		a, con monoconic	
-	he cisternae have <i>cis</i> face	=		
			e and maturing face respectivel	v
	rect and statement II is in	-		J
b) Both statements a				
	out statement II is the corr	rect explanation of stat	ement I	
	but statement II is not the			
446. How many binding s		_		
a) Two	b) Three	c) Four	d) None of these	
447. Which of the following		*	,	
a) Protein	b) Carbohydrate	c) RNA	d) Nucleotides	
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I. They are generally smaller than eukaryotic cells

448. Most prokaryotic cells, mainly the bacterial cells, ha	ve	
a) A chemically complex cell envelope		
b) A chemically simple cell envelope		
c) Cell envelope only in the form of a cell membrane		
d) No cell envelope		
449. Which one of the following organelles is not surrour	ided by any membrane?	
a) Mitochondrion	b) Vacuole	
c) Endoplasmic reticulum	d) ribosome	
450. Read the statements given below with regard to the	functions performed by Go	lgi apparatus?
I. Transport and chemically modify the materials co	ntained within it	
II. Secrete mucin in the respiratory tract.		
III. Secrete slime in the insectivorous plants.		
Which of the following is the correct answer?		
a) I is wrong but II and III are correct	b) II is wrong but I and III	are correct
c) II and III are wrong but I is correct	d) All are correct	
451. Which of the following differentiate plant cells from	animal cells?	
a) Large vacuole, plastid and cell wall	b) Cell wall, plastid and co	entriole
c) Cell wall, plastid and mitochondria	d) Cell membrane, plastid	l and cell wall
452. The types of ribosome found in prokaryote is		
a) 100 S b) 80 S	c) 60 S	d) 70 S
453. The maximum amount of calcium pectate is present	in	
a) Primary cell wall b) Secondary cell wall	c) Middle lamella	d) Cell membrane
454. DNA is present in	5	
a) Chromosomes and dictyosomes	b) Chloroplasts and lysos	omes
c) Mitochondria and chloroplasts	d) Mitochondria and endo	oplasmic reticulum
455. Subunits of 80 S ribosome are		
a) 40 S b) 60 S	c) Both (a) and (b)	d) None of these
456. 'It has not escaped our notice that the specific pairin	g we have postulated imme	ediately suggests a possible
copying mechanism for the genetic material'. This is	written by	
a) Meselson and Stahl b) Archibold Garrod	c) Severo Ochoa	d) Watson and Crick
457. Clover leaf secondary structure of t RNA has anticod	on arm which	
a) Contains in its loop three nucleotides of the codo	n	
b) Contains in its loop three nucleotides of the antic	odon	
c) Contains in its no nucleotides		
d) Both (a) and (b)		
458. Which of the following statements are correct for eu	karyotic cells?	
I. Two envelope organisation		
II. The flagella if present, are 11 stranded with differ	entiation of axonema and s	heath
III. Organised nucleus		
IV. Cell wall without muramic acid		
Choose the correct option		
a) I and II b) I and III	c) Only IV	d) I, II, III and IV
459. A nucleoid represents the genetic material of prokar	yotes. It is known as	
a) Prochromosome b) Genophore	c) Incipient nucleus	d) All of these
460. Nucleic acid occurs in		
a) Golgi body	b) Lysosomes	
c) Cytoplasm	d) Mitochondria and chlo	roplast
461. Assembly of two subunits 40 S and 60 S of the ribose	ome is	
a) 100 S b) 80 S	c) 70 S	d) 50 S
462. Flagella of prokaryotic and eukaryotic cells differ in		

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a) Type of move	ement and placement in cell		
b) Location in c	ell and mode of functioning		
c) Micro-tubula	r organisation and type of move	ement	
d) Micro-tubula	r organisation and function		
463. DNA replication	ı includes		
a) DNA ligase		b) DNA polymerase	and ligase
c) RNA polyme	rase	d) All of the above	
464. Mesosomes are	the infoldings of cells membran	e, which	
I. helps in cell w	all formation, DNA replication a	and respiration	
II. increases the	surface area of plasma membra	ine	
III. are present	in both prokaryotic and eukaryo	otic cells	
Choose the corr	ect option		
a) II and III	b) I and II	c) I and III	d) I, II and III
465. The cell organe	lle associated with intracellular	digestion of macromolecu	lles is
a) Lysosome	b) Peroxisome	c) Polysome	d) Dictyosome
466. According to ce	ll doctrine, which of the followin	ng statements are incorrec	et?
I. The bodies of	all living beings are made up of	cells and their products	
II. Cells are the	basic units of structure in the bo	dy of living organisms	
III. Cells are the	basic units of function in living $% \left(1\right) =\left(1\right) \left(1\right$	organisms that is, the acti	vities of an organisms are the
sum total of the	activities of its cells		
	rmation is stored and expressed	inside the cells	
Choose the corr			
a) II and III	b) I and II	c) Only I	d) I, II, III and IV
	usually unbranched units arran		
a) Cisternae	b) Cristae	c) Vesicles	d) Tubules
			sm and $2x$ number of K^+ entered
into the cell. Wh	nat is the process by which K^+ tr		
a) Primary activ	ve transport	b) Secondary active	
c) Diffusion	CFI LUS LLD	d) Passive transpor	t