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12/3, Krishna Nagar, Metro Station, Lucknow, UP

NDA - Biology Practice Sheet

Topic - Cell Fundamental						
1.	Which of the following contain enzymes for cellular		10.	The correct sequence of cell cycle is		
	respiration?			(a) S, G_1 , G_2 , M	(b) S, M, G_1 , G_2	
	(a) Dictyosomes			(c) G_1, S, G_2, M	(d) M G_1 , G_2 , S	
	(b) Endoplasmic reticulur	m		Answer. (c)		
	(c) Lysosomes		11.	Biological membrane are composed of		
	(d) Mitochondria			(a) 40% proteins and 60% light		
	Answer. (d)			(b) 50% proteins and 50% lipids		
2.	Which one among the following cell organelles is			(c) 70% proteins and 30% lipids		
	semi-peremable?			(d) 60% proteins and 40% lipids		
	(a) Cell membrane	(b) Plasma Membrane		Answer. (d)		
	(c) Cell wall	(d) Nucleus	12.	F_1 particles/oxysome / ϵ	elementary particles are	
	Answer. (d)			present in		
3.		Which one among the following nutrients is a		(a) Division of nucleus		
	structural component of	AND THE STATE OF T	180	division (b) Division of chromosome without nuclear		
	(a) Manganese	(b) Pot <mark>assium</mark>		division		
	(c) Phosphorus	(d) Calcium		(c) Division of cytoplasm		
	Answer. (d)		A	(d) None of these		
4.		groups is present in animal		Answer. (c)		
	cells?		13.	"Endomitosis" refers to		
		l membrane, Cell wall,	100	(a) Division of nucleus		
	Cytoplasm		Name of the last	division (b) Division of	chromosomes without	
	(b) Chloroplasts, Cytoplasm, Vacuole, Nucleus			nuclear divison		
		nembra <mark>ne</mark> , Mit <mark>ochondria,</mark>		(c) Division of cytoplasm		
	cytoplasm			(d) None of these		
	• •	nne, Nucleus, Mitochondria		Answer. (b)		
	Answer. (c)		14.	When the concentration of water and solutes on		
5.		in secondary growth are		either side of the cell membrane is same, the solution		
	named as			is said to be		
	(a) Cholesterol	(b) Glycolipids		(a) Hypertonic	(b) Isotonic	
	(c) Cambium	(d) Medullary ray		(c) Hypotonic	(d) None of these	
	Answer. (c)			Answer. (b)		
6.		ng is not a constituent of cell	15.	The function of nucleous is	5	
	membrane?			(a) DNA	(b) m-RNA	
	(a) Cholestrol	(b) Glycolipids			(d) t-RNA	
	(c) Proline	(d) Phospholipids		Answer. (c)		
	Answer. (c)	- annelli GIII	16.	Mesosome is a bacterial cell	is	
7.	The replication of DNA is a pre-requisite for a eukaryotic cell to undergo division. During the cell cycle, the DNA replicates in			(a) Plasmid		
				(b) Connection between two cells		
				(c) Plasma membrane infold	ded for respiration	
	(a) S-phase	(b) G_1 -phase		(d) None of these		
	(c) G_2 -phase	(d) M-Phase		Answer. (c)		
	Answer. (a)			In living cells synthesis of	ribonucleic acid (RNA)	
8.	During which stage of mitosis does cytokinesis			takes place in:		
	usually occur in animals?			(a) Cytoplasm	(b) Nucleus	
	(a) Prophase	(b) Metaphase		(c) Golgi body	(d) Nephron	

(d) Mitochondria Answer. (b) Answer. (c)

(d) Telophase

(a) Endoplasmic reticulum (b) Golgi apparatus

(c) Anaphase

Answer. (d) **9.** Lysosome arises from

(c) Nucleus

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Answer. (b)

(a) Vacuole

(c) Plastid

and proteins is

18. The cell organelle storing substances like starch, oil

(b) Lysosome

(d) Golgi body

19.	Organisms lacking nuclear membrane and cell			(d) DNA of mitochondria		
	organelles is called as:			Answer. (c)		
	(a) Prokaryotes	(b) Eukaryotes	30.	Cell wall is not present in c	ells of	
	(c) Protozoa	(d) Virus		(a) Bacteria	(b) Plants	
	Answer. (a)	` '		(c) Fungi	(d) Humans	
20.	, ,	nvolved in the waste disposal		Answer. (d)	. ,	
	system of the cell are:		31.	Which cell organelles have	ve their own DNA and	
	(a) Golgi apparatus	(b) Lysosomes		Ribosomes?		
	(c) Chromosomes	(d) Ribosomes		(a) Golgi body and Endopla	asmic Reticulum	
	Answer. (b)			(b) Mitochondria and Plasti	ids	
21.	Which one of the following is an organelle that is			(c) Lysosomes and Golgi body		
	NOT found in prokaryotic cells?			(d) Vacuole and Plastids		
	(a) Cell wall	(b) Mitochondria		Answer. (b)		
	(c) Plasma membrane	(d) Ribosome	32.	Osmosis is the process	of movement of water	
	Answer. (b)			molecules from its		
22.		wing cell organelles mainly		(a) Higher concentration to its lower concentration		
	function as storehouse of			through a cell wall		
	(a) Desmosome	(b) Ribosome		(b) Lower concentration to		
	(c) Lysosome	(d) Vacuoles		through a fully permeable		
	Answer. (c)	. 1:00		(c) Higher concentration to		
23.		s is different from plants in		through a fully permeable in		
	having	(b) Chitin		(d) Higher concentration t		
	(a) Cellulose(c) Nucleolus	(b) Chitin (d) Nucleosome	2	through a semi-permeable:	membrane	
	Answer. (b)	(d) Nucleosoffie	22	Answer. (d) Cell were first discovered b	N7	
24		sms, nucle <mark>ar region is not</mark>	100	(a) Robert Hooke	(b) Leeuwenhoek	
27.		rane. This undefined nuclear		(c) Purkinje	(d) Virchow	
	region is known as?	die. The didelined facted		Answer. (a)	(d) viicilow	
	(a) Nucleic acid	(b) Nucleoid	34.	The plasma membrane is		
	(c) Nucleolus	(d) Nucleosome		(a) Permeable	(b) Impermeable	
	Answer. (b)		100	(c) Selectively permeable	(d) Both (a) and (b)	
25.		ing functions is carried out by	-	Answer. (c)		
	smooth endoplasmic ret		35.	Nuclear material without cover is found in		
	(a) Transport of materia		ALLE	(a) Mycoplasma and green	algae	
	(b) Synthesis of lipid	THE LABOR		(b) Bacteria and fungi	1	
	(c) Synthesis of protein		H	(c) Bacteria and blue green	algae	
	(d) Synthesis of steroid l	hormon		(d) None of these		
	Answer. (c)			Answer. (c)		
26.		g is the cellular respiratory	36.	The word 'prokaryote' mea	ns a cell	
	centre?			(a) With many nuclei		
	(a) Nucleus	(b) Mitochondria		(b) With one nucleus		
	(c) Ribosome	(d) Golgi body		(c) With diffused nucleus		
	Answer. (b)	. 11		(d) Without chloroplast		
27.		wing cell organelles contains	27	Answer. (c)	-11111- d	
	DNA?		3/.	Minute structure on bacteri		
	(a) Golgi apparatus			(a) Hair	(b) Cilia	
	(b) Mitochondria			(c) Flagella Answer. (d)	(d) Pili	
	(c) Lysosome(d) Endoplasmic reticult	um.	20	Cell theory was proposed b	N7	
	Answer. (b)	um	30.	(a) Schleiden and Schwann		
20	• •	als to different parts of		(b) Robert Brown		
20.		is generally carried out by?		(c) Leeuwenhoek		
	(a) Ribosomes	is generally earlied out by:		(d) Purkinje		
	(b) Mitochondria			Answer. (a)		
	(c) Lysosomes		39	The underfined nuclear reg	ion in a bacteria is	
	(d) Endoplasmic reticult	ım	55.	(a) Nucleoid	(b) Nucleus	
	Answer. (d)			(c) Chromosome	(d) Nucleolus	
29.	`	ΓP synthesizing chemical		Answer. (a)	(5) 1 (40)	
	reactions take place in the	, o	40.	Nucleus plays a crucial par	t in	
	(a) Outer membrane	-		(a) Metabolism		
	(b) Matrix			(b) Cellular reproduction		
	(c) Inner membrane			(c) Plasma membrane		
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	(d) Nuclear membrane			(c) Plastids	(d) Mitochondria
Δ1	Answer. (b) Which of the following is not present in prokaryotes?		52	Answer. (c) Golgi apparatus is involved in the formation of	
	(a) Ribosomes	(b) Cell wall	32.	(a) Lysosome	(b) Vacuoles
	(c) Plasma membrane	(d) Nuclear membrane		(c) Plastids	(d) Mitochondria
	Answer. (d)	(-)		Answer. (a)	()
42.	Chemical nature of carri	er molecules facilitating	53.	DNA is a component of	
	transport accross plasma m	_		(a) Mitochondria	(b) Chloroplast
	(a) Starchy	(b) Sugary		(c) Cytoplasm	(d) (a) and (b) both
	(c) Proteinaceous	(d) Fatty acid		Answer. (d)	
	Answer. (c)		54.	One of these is double mem	nbrane organelle
43.	ER remains associated with	L		(a) Lysosome	
	(a) Dictyosomes	(b) Mitochondria		(b) Mitochondria	
	(c) Karyotheca	(d) Chloroplast		(c) Nucleus	
	Answer. (c)			(d) Endoplasmic reticulum	
44.	Vacuole is surrounded by			Answer. (b)	
	(a) Plasmalemma	(b) Cell wall	55.	The cell organelle containin	
	(c) Tonoplast	(d) Plasmodesmata		bounded cisternae are locat	
	Answer. (c)			(a) Mitochondria	(b) Golgi
45.	The organisms that lack me			(c) Centrioles	(d) Nucleolus
	(a) Viruses	(b) Bacteria		Answer. (b)	- 1111 double-
	(c) Protozoans	(d) Fungi	56.	The entry of mineral ion	s in a plant cell during
16	Answer. (a) The organelle attached to the	na rough EP is		absorption is by	(b) Active abcomption
40.	(a) Ribosomes	(b) Lysosomes	13	(a) Passive absorption (c) Osmosis	(b) Active absorption(d) Endocytosis
	(c) Golgi bodies	(d) Proteins		Answer. (b)	(d) Endocytosis
	Answer. (a)	(d) Hotelis	57	The suicide bags of the cells	s are
47	Golgi bodies help in		1	(a) Plastids	(b) Mitochondria
٠,,	(a) Excertion of steroids	(b) Storage and secretion		(c) Lysosomes	(d) Ribosomes
	(c) Translation	(d) Transcription	1	Answer. (c)	(a) rabosomes
	Answer. (b)		58.	The power houses of the ce	lls are
48.	According to fluid mosaic	model plasma membrane	No.	(a) Mitochondria	(b) Plastids
	is composed of	The state of the s		(c) Golgi complex	(d) Ribosomes
	(a) Phospholipids, extrinsic	and intrinsic proteins	1100	Answer. (a)	` ,
	(b) Phospholipids and oliog	(b) Phospholipids and oliogosaccharides		Vesicles are essential for the normal functioning of	
	(c) Phospholipids and hemi	cellulose		the Golgi apparatus because	
	(d) Phospholids and interna	al glycoproteins		(a) They provide energy for chemical reactions.	
	Answer. (a)			(b) They move proteins and	d lipids between different
49.	The presence of	organelle is only revealed		parts of the organelle	
	by electron microscope.			(c) They contribute to the	structural integrity of the
	(a) Chloroplast	(b) Mitochondria		organelle	A
	(c) Golgi bodies	(d) Lysosome		(d) They produce the su	igars that are added to
	Answer. (d)			proteins	
50.	One of these is the smallest		60	Answer. (b)	1
	(a) Ribosome	(b) Lysosomes	60.	Amino acid chains built by	the ribosomes then move
	(c) Mitochondria	(d) Chloroplast		to the	(I-) I
E 1	Answer. (a) The SER helps in building the cell membrane. This			(a) Golgi apparatus	(b) Lysosome
31.	process is called	the cen membrane. This		(c) Endoplasmic reticulum	(d) Mitochondria
	(a) Lysosome	(b) Vacuoles		Answer. (c)	
	(a) Ly5050IIIC	(b) vacuoles			

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