	INDIAN S	CHOOL AL WADI AL KABIR	
Class: XI	Department: SCIENCE 2022 – 23 SUBJECT: BIOLOGY		Date of submission: 23.10.2022
Worksheet 7 with answers	CHAPTER: Cell: The unit of life		Note: A4 FILE FORMAT
NAME OF THE STUDENT		CLASS & SEC:	ROLL NO.

MULTIPLE CHOICE QUESTIONS

- 1. Name the membrane which surrounds the vacuole in cell.
 - (a) Cell membrane
 - (b) Tonoplast
 - (c) Primary wall
 - (d) Middle lamellae
- 2. Identify a prokaryote without cell wall
 - (a) Mycoplasma
 - (b) Archaebacteria
 - (c) Eubacteria
 - (d) Cyanobacteria
- 3. Ribosomes are made up of
 - (a) DNA and proteins
 - (b) DNA and lipids
 - (c) RNA and proteins
 - (d) RNA and lipids
- 4. Select the organelle which is not a part of endomembrane system
 - (a) Mitochondria
 - (b) Endoplasmic reticulum
 - (c) Golgi apparatus

- (d) Vacuole
- 5. The proteinaceous frame work in eukaryotes that helps in support
 - (a) Nucleolus
 - (b) Mesosomes
 - (c) Chromatophores
 - (d) Cytoskeleton

TWO MARKS QUESTIONS

- 6. List the functions of Golgi bodies.
- 7. Mention two differences between SER & RER.
- 8. What are the cell inclusions in prokaryotic cell?
- 9. Mention the similarities between mitochondria and chloroplasts.
- 10. What are the methods of passage of substances across the cell membrane?

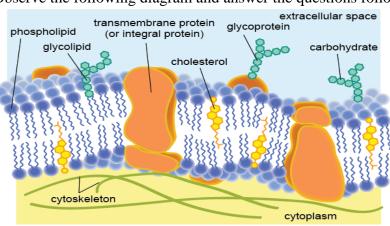
THREE MARKS QUESTIONS

- 11. What are mesosomes? Mention their functions.
- 12. Give the differences between prokaryotes and eukaryotes.
- 13. Give a brief description about the cell envelope in prokaryotes
- 14. Name the organelles that are coming under endomembrane system. Why they are known so?
- 15. Tabulate the names, specialties and functions of different types of plastids

FIVE MARKS QUESTIONS

- 16. Describe the ultra-structure of a cilium or flagellum.
- 17. Describe the structural organization of a typical eukaryotic chromosome. What are different types of chromosomes on the basis of position of centromere?
- 18. With the help of a neat labelled diagram explain the structure of chloroplast.
- 19. Answer the following questions
 - (a) Name the organelle which is known as power houses of cell. Why they are known so?
 - (b) Name the organelle which is known as suicidal bags. Why they are known so?
 - (c) Distinguish between 70S & 80S ribosomes
 - (d) What is the speciality of satellite chromosomes?

20. Observe the following diagram and answer the questions followed.



- (a) Identify the figure
- (b) Explain the structure in detail
- (c) Who proposed this model?

HINTS/SOLUTIONS

	MULTIPLE CHOICE QUESTIONS	
1	b	1
2	a	1
3	С	1
4	a	1
5	d	1
	TWO MARKS QUESTIONS	
6	(Hints: packaging, modification and secretion of materials produced in ER)	2
7	(Hints: SER – no ribosomes, lipid synthesis, RER – ribosomes are present, protein synthesis)	2
8	(Hints: Storage bodies in prokaryotes, cyanophycean granules, phosphate granules, gas vacuoles)	2
9	(Hints: Presence of ribosomes and DNA, double membrane bound)	2
10	(Hints: Active transport, passive transport, osmosis)	2
	THREE MARKS QUESTIONS	

11		plasma membrane, present in prokaryotes, ill wall formation, DNA replication,	3
12		us, nuclear membrane – absent/present, cell sent, size of the cells, number of of cells)	3
13	(Hints: Structure of glyc	ocalyx, cell wall and plasma membrane)	3
14	(Hints: ER, Golgi bodies coordinated)	s, lysosomes, vacuoles – functions are	3
15	pigments present in then		3
	FIVE MARKS QUEST	TIONS	
16	spokes, linkers, hub, mid	ence of plasma membrane, Axoneme, radial crotubules, 9+2 arrangement of central tubule and central sheath, diagram	5
17		known as chromatids, centromere, tacentric, sub metacentric, telocentric and n and diagrams)	5
18	•	roma lamellae, presence of ribosomes and osynthesis, diagram)	5
19	(Hints: (a) – Mitochondre distribution, (b) – Lysosomes – dising releasing hydrolytic enz	ria – energy production, storage and tegration of cell when heavily infected by ymes $0S + 30 S, 80S - eukaryotes, 60S + 40S (d)$	5
20	lipids, proteins and carb	f plasma membrane, (b) – components – ohydrates, fluid mosaic model – lipid ripheral proteins, glyco proteins, lecules, fluidity and mosaic pattern, (c)	5
Ms. Rejitho	ı Sajith	Checked by: HOD - S	CIENCE

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