

Shree H.N.Shukla College of Science Rajkot B.Sc. (Sem. IV) (CBCS)

[201]: CELL BIOLOGY Biochemistry Unit Test Paper-1

[Time: 2:30 Hours] [Total Marks: 50]

Date: 21/04/2021.

Instructions: 1. all questions are compulsory.

2. The right-side figure indicates total marks of the question.

3. Draw the figure wherever necessary.

4. Write answers of all the questions in main answer sheets.

Question-1

[A] Objective type questions (5 question) [05]

- 1. Definition of cell.
- 2. What is the genetic material found in Viruses?
 - (A) Double stranded DNA
- (B) Single stranded RNA
- (C) Single stranded DNA
- (D) All of the above

- 3. What are the prions?
- 4. What is the genetic material found in Viroid?
 - (A) Double stranded RNA
- (B) Single stranded RNA
- (C) Single stranded DNA
- (D) All of the above
- 5. Mention elements of cytoskeleton.

[B] Answer in brief. Write any [two out of three]

[04]

- 1. Difference between Prokaryotes vs Eukaryotes.
- 2. Give brief introduction about Virus and Viroid.
- 3. Write history of Cell biology.

[C] Answer in detail. Write any [two out of three]

[06]

- 1. Give difference between plant cells and animal cells.
- 2. Explain prokaryotic cell and components with diagram.
- 3. Explain levels of organization in biology with flow chart.

[D] Answer in detail. Write any [two out of three]

[10]

- 1. Explain plant cell and animal cell in detail with diagram.
- 2. Write note about components and structure of cytoskeleton.
- 3. Explain Animal cell in detail.

Question-2

[A] Object	tive ty	pe questions (5 qı	uestion)		[05]
1. What is	the mat	ernal origin of Mitoc	hondria?		
2. What are (A) Cell		mponents found in pl (B) Hemicellulose		(D) None of the above	ve
3. Main co	mponen	t of fungal cell wall	is		
• .	a cellul	olecules are synthesiz ar proteins	zed in Smooth endop (B) Intra cellul (D) All of the a	ar proteins	
5. Differen	ce betw	een cytosol and cyto	plasm.		
[B] Answer in brief. Write any [two out of three]					[04]
2. Write t centrifu	he sequ gation.	ween Smooth ER vs. ence of cell organelle ion of homogenization	es and components is	olated from differentia	al
[C] Answe	r in de	etail. Write any [t	wo out of three]		[06]
2. Explain	Plasma	between different ty membrane with diag al origin of mitochon	gram.	lls.	
[D] Answe	er in de	etail. Write any [t	wo out of three]		[10]
2. Write r	ote abo	eell wall in detail. ut Golgi bodies, Lysoymbiotic theory in de		lies.	