5/20/2020 Question Paper

SIDDHANT CLASSES

Std.: X (Semi English) Science And Technology - II Marks: 40

Date: 21-May-2020 <u>practice c2</u> Time: 2 hr

Chapter:

				Chapter.		
	Multi	ple Choice Questions				
1	Cytok	Cytokinesis is the division of				
	a. cel	l b. cytoplasm	C. Ce	ell wall d. nucleus		
2		Cell division occurring in somatic cells is				
	a. mit	osis b. meiosis	C. (	diakinesis d. diplotene		
3	Cell organelles involved in the cellular respiration are the					
		'		c. ribosomes d. lysosomes		
4	· · · · · · · · · · · · · · · · · · ·					
_	a. Respiration b. Photosynthesis c. Nutrition d. Absorption  The nuclear membrane disappears completely in					
5		iuciear membrane disa ophase b. Anaphas		completely in		
2						
- 1						
3		Find co-related terms  Jaggary: Carbohydrates:: egg:				
1						
.4 1	Match the pair					
		Column "A"		Column "B"		
	i.	Telophase	a.	Chromosomes become arranged in a plane at the equator.		
	ii.	Metaphase	b.	Daughter chromosomes move to opposite poles of the cell		
			C.	Chromosomes become visible and centrioles moves to opposite		
				poles of the cell.		
			d.	Chromosomes lose their distinctiveness and gradually become		
				transformed into chromatin network.		
5	State	State True or False				
1	Energy is required for the functioning of all the life processes.					
6	Name the following					
_	Give	Give the names of two co-enzymes that take part in the cellular respiration.				
1		Give scientific reasons (Any Two)				
	Give	scientific reasons (A	າy Two	)		
		scientific reasons (A	-			
7	Oxyg	•	nplete (	exidation of glucose.		

Write Short Notes (Any One)

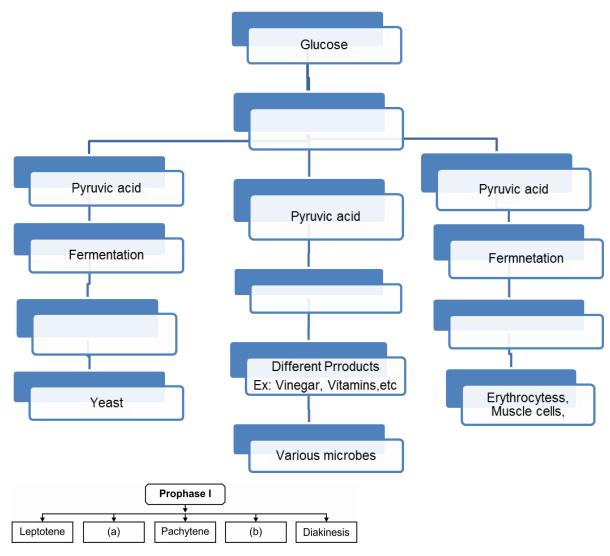
**Q.8** 

5/20/2020 Question Paper

- 1 Write short note on Glycolysis.
- 2 Write short note on Electron transfer chain reaction.

# Q.9 Complete the given flow chart / table (Any One)

1 Complete the chart for anaerobic respiration in living organisms/ cells.



- Q.10 Distinguish between(Any One)
  - 1 Glycolysis and TCA cycle

2

- 2 Aerobic and Anaerobic Respirationa
- Q.11 Give explanation using the given statements.(Any One)
  - **1** Fill in the blanks and explain the statements. At the end of glycolysis, ...... molecules are obtained.
  - **2** Fill in the blanks and explain the statements. For formation of plasma membrane, ...... molecules are necessary.

### Q.12 Complete the table/ web/ flow chart (Any One)

1 Complete the following table related to Proteins Amino Acids

Name of Protein/ Amino acids	Where it is found

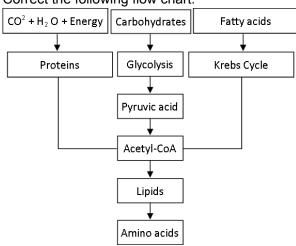
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3

i	Skin
ii. Ossein	
iii	Pancreas
iv. Actin and Myosin	
V	Blood

2 Correct the following flow chart.



### Q.13 Complete the sentences in paragraph (Any One)

1 Select the appropriate options and rewrite the following paragraph.

(Proteins, testosterone, 9 Kcal, epithelial, phospholipids, lipids, growth harmone, progesterone, 4 Keal, adipose connective)

Digestion of ...... results in formation of fatty acids and glycerol. Different cells use fatty acid to produce various substance necessary to themselves. For e.g. the molecules called ...... are required for production of plasma membrane. Fatty acids are required for production of hormones like ...... estrogen, ....., aldosterone, etc, and the covering around the axons of nerve cells. We get ...... of energy per gram fo lipids. Excess lipids are stored in ...... tissue in the body.

**2** Complete the paragraph.

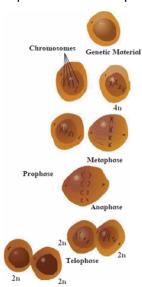
#### Q.14 Answer the following (Any Two)

- 1 How all the life processes contribute to the growth and development of the body?
- 2 i. Why some living organisms have to perform anaerobic respiration?
  - ii. Give examples of such living organisms.
  - iii. What are the two steps of anaerobic respiration?
- **3** i. What is cell division?
  - ii. Which type of cell division occurs in somatic cells of the body?
  - iii. Where does meiosis occur in the body?

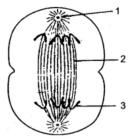
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# Q.15 Answer the following in detail (Any One)

1 Explain in detail the process mentioned in the diagram.



2 The diagram below represents a stage during cell division. Study the same and answer the questions.



- i. Name the labelled parts 1,2 and 3?
- ii. Identify the above stage and give a reason to support your answer?
- iii. Give an example of this type of cell division in the body?
- iv. Name the stage prior to this stage?