2024

(June)

Biochemistry

Full Marks: 70

Time: 3 hours

The figures in the margin indicate full marks for the questions

Answer all questions

1. What are vitamins? Name the fat soluble and watersoluble vitamins. Write the sources, biological functions and deficiency symptoms of Vitamin C.

زي

The Krebs Cycle occurs in the cytoplasm of

eukaryotic cells. (Write True/False)

fasting

True/False)

Glycogen is stored primarily in the liver and

reactions. (Write True/False)

muscles. (Write True/False)

Ketone bodies are produced during prolonged

and carbohydrate restriction. (Write

2+5+8=15

- **2.** Explain the process of glycolysis, including the key enzymes and regulatory steps. 10+5=15
- **3.** Write short notes on:

5x6 = 30

- a) Functions of proteins in our body.
- b) Buffer systems of our body.
- c) Structure and function of ATP.
- Enzymes and its classification with examples.
- e) Balanced Diet and its importance.
- DNA and its functions.

(Turn Over)

(2)

<u>(9)</u>		.)	e)		d)		c)		b)		a)	4. Fi	
g) Enzymes increase the activation energy of biological	non-carbohydrate sources is called a lucameage mes	f) The process by which glucose is synthesized from	Vitamin B12 is also known as Cyanocabalam de)	is test, nothenals	d) The test done for detection of ketone bodies in urine	in a protein is called poption bond.	c) The bond that is present between two amino acids	protein.	b) Strong acids and alkalis cause of	VIT D	a) Rickets is caused due to deficiency of Vitamin	4. Fill in the blanks/Write True or False: 1x10=10	

* * *

SS/1st Sem. B. Sc.MT/1st Sem. BPT/BIO/06-24