SY.Bsc. Semester-III A.T.K.T Examination

200/039-1

VCD 9/10/19

Paper-II USZO402

Total Marks: 100

Duration 3 hrs.

Note:

- 1) All the questions are compulsory.
- 2) Figures at right indicates marks.
- 3) Draw diagrams wherever necessary.
- 4) Answer in serial order.

Q1) A Fill in the blanks.

(05)

- 1) In the prokaryotes cells division is by (mitosis, simple fission, meosis)
- 2) Rough endoplasmic reticulum is responsible for synthesis of (lipids, proteins, vitamins)
- 3) was discovered by Chirstain de Duve (SER, Lysosomes, Goligi complex)
- 4) Cellulose is a (monosaccharide, polysaccharide, oligosaccharide)
- 5)is a positively charged amino acid (Aspartie acid, Luecine, arginine)

B) Match the following

(05)

- 1) Anchoring junction
- 2) Mitochondria
- 3) Nucleus
- 4) Alanine
- 5) ahelix

- A) Glucogenic amino acid
- B) Pauling and Corey
- C) Desmosomes
- D) Powerhouse
- E) Nuclear envelope

C) True or False

(05)

- 1) Histidine is non- essential in adults.
- 2)Golgi complex was discovered by Pflugir(1869).
- 3) Pinnocytosis means cellular eating.
- 4) Residual bodies are present in lysosomes.
- 5) β form was first recognised in β keratin.

D) Answer in one sentence.

(05)

- 1) Who coined the term protein?
- 2) Define simple diffusion.

3) What are marker enzymes of mitochondria?4) Define microvilli.5) Define Vitamins.	
Q2) Answer the following (Any 2)	(20)
 Describe Flid Mosiac model of plasma men Explain endocytosis and its types. Differentiate between Prokarotic and eukary Describe Microfilament and its function 	
Q3)Answer the following (Any2)	(20)
1)Describe ultrastructure of Endoplasmic retic	ulum
2)Explain in detail ultrastrucure of Golgi comp	olex with its significance.
3) Biogenesis in Mitochondria	
4)Structure and functions of Lysosomes.	
Q4) Answer the following (Any2)	(20)
 Discuss the properties of carbohydrates. Describe the structure of water and add a note Define Amino acid. Discuss its classification Define Lipids. Explain its classification in det 	pased on R group.
Q5) Write short note (Any4)	(20)
1)Saturated fatty acid 2)Cell theory 3)Structure of Nucleus 4)Proteins 5)Labilizers and Stabilizers 6)Collogen 7)Anomers 8)Active transport	
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