

PAR-003-001535

Seat No.

B. Sc. (Sem. V) (CBCS) Examination

October / November - 2018 Zoology : Paper - Z - 503

Faculty Code: 003 Subject Code: 001535

Time: Hours] [Total Marks: 70

Instructions: (1) Draw neat and labeled diagram wherever necessary.

(2) Figures to the right side indicate full marks for the question.

1 Objective type question:

20

- (1) Define: Polysaccharide.
- (2) Which type of bond is present between two units forming disaccharides?
- (3) A solution having pH 5, nature of solution is......
- (4) Which vitamin is known as anti pellagra factor?
- (5) Describe: Inversion mutation.
- (6) Define: Cancer.
- (7) Define: Active site of enzyme.
- (8) Define: Gene.
- (9) What is centrifugation?
- (10) Define: Activation energy.
- (11) Definition of Chromatography.
- (12) Bond present in primary protein.
- (13) Define: Enzyme.
- (14) What is acid stain?
- (15) Types of chromosome name only.
- (16) Define: Chromatography.
- (17) Function of Protein.
- (18) Application of pH meter.
- (19) What is negative staining?
- (20) Paper chromatography is used for the separation of

2	(a)	Answer any three out of six:	6
		(1) Briefly describe disaccharide.	
		(2) Importance of vitamin.	
		(3) Deletion type chromosomal mutation.	
		(4) Define: Gene.	
		(5) Short note on alpha helix.	
		(6) Explain: Sucrose with structure.	
	(b)	Answer any three out of six:	9
		(1) Explain : Amniocentasis.	
		(2) Explain: Paper chromatography.	
		(3) Explain: Tocopherol.	
		(4) Types of chromosome in detail with structure?	
		(5) What are Chemical mutagens?	
		(6) Explain Colourblindness as a hereditary trait.	
	(c)	Answer any two out of five:	10
		(1) Explain the centrifugation process.	
		(2) Characteristics of cancerous cells.	
		(3) DNA fingerprinting.	
		(4) Explain translocation.	
		(5) Molecular structure of gene.	
3	(a)	Answer any three out of six:	6
	` '	(1) Discuss: Haemophilia.	
		(2) Short note: Tertiary Protein.	
		(3) Hormonal disturbance theory of carcinogenesis.	
		(4) Types of cancer.	
		(5) Metabolic theory of carcinogenesis.	
		(6) Structure of Primary protein with bond.	
	(b)	Answer any three out of six:	9
		(1) Explain Lock and key theory of enzymes.	
		(2) Secondary protein.	
		(3) Structure of insulin.	
		(4) Short note: Chromium.	
		(5) Radiation as a mutagen.	
		(6) Define and classify: Carbohydrates.	
	(c)	Answer any two out of five:	10
		(1) Describe the classification of amino acids along	
		with their structure.	
		(2) Importance of minerals.	
		(3) Types of enzymes and factors affecting it.	
		(4) Give the comparison between centrifugation and	
		chromatography. (5) Importance of carbohydrate ?	
		(b) importance or carbonyurate :	