GENERAL SCIENCE AND ADILITI

ME ALLOWED: THREE HOURS	PART-I (MCQS)	MAXIMUM MARKS = 20
RT-I(MCQS): MAXIMUM 30 INUTES	PART-II	MAXIMUM MARKS = 80
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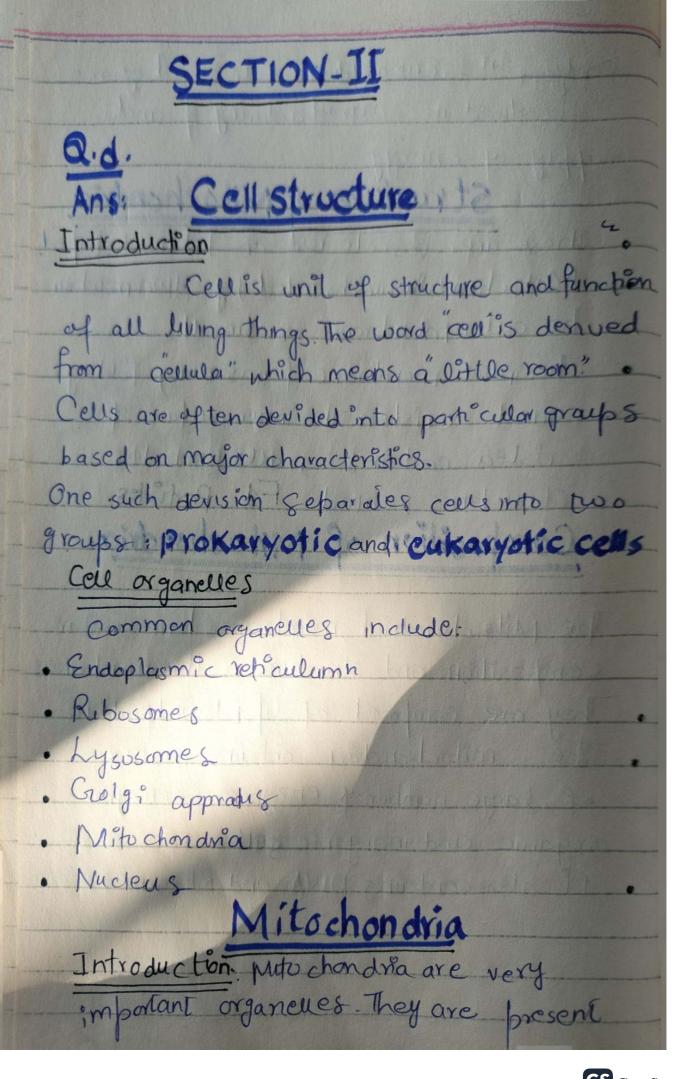
- Part-II is to be attempted on the separate Answer Book.
 - Attempt ONLY FOUR questions from PART-II by selecting TWO questions from EACH SECTION. ALL questions carry EQUAL marks.

PART-II (SECTION-A)

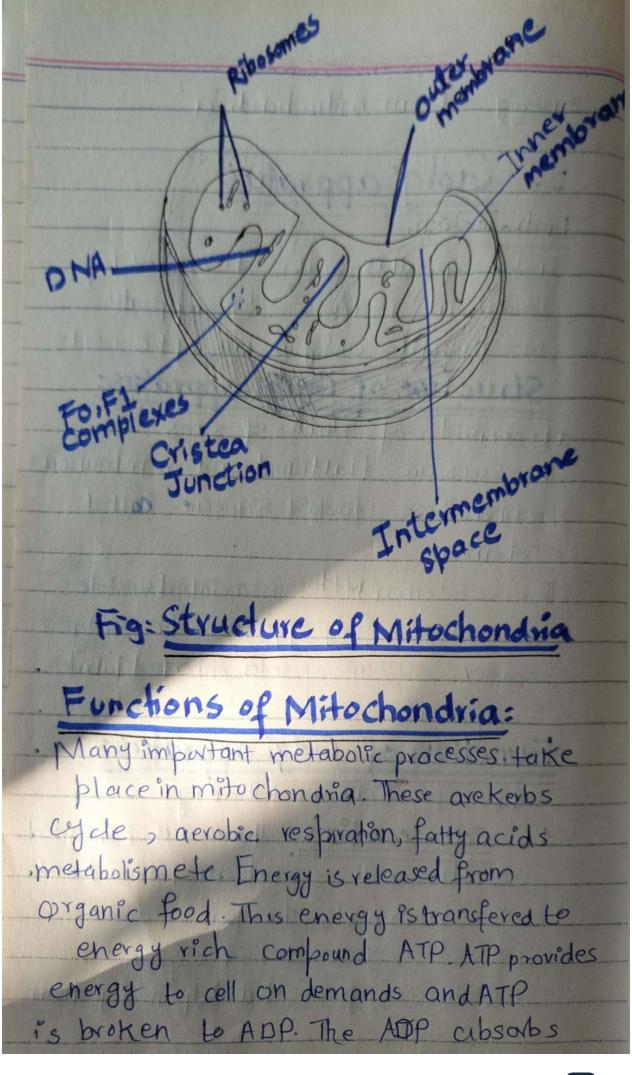
lo. 2

- a. What is octet rule in chemical in chemical bonding? Explain covalent bond in detail.
- b. Why water molecule is angular in structure?
- c. Write a note on structure and functions of Human Brain.
- d. Describe the 'Cell Structure'. Write down the functions of at least three Subcellular Organelles.
- lo. 3





only in Eukanyotic cells They are involved in manufacturing of and Supply of energy Structure of Mitochondria These are vesicle rod on filament shaped Mitochandra are bonded by two membrane he outer membrane is smooth The inner membrane forms many foldings called cristea. The inner surface of cristea contains small knob like structures, called F1 particles. Composition of Mitochondria: The Mito chondrial membranes have similar composition and structure as other membranes They are composed of lipsids and protiens. The mitochondria contains matrix of large number of enzymes, coenzymes organic and inorganic salts. 1 It also contains DIVA and Ribosomes,



vay "From mitochondia 2. Golgi appratus Introduction. Golgi appratus was discovered by Cropi in 1898. Crolgi appratus are present only in eukaryofic cells Structure of Golgi appratus: It consists of stacks of sacs The sacs are flattened and membranous bound. Those stacked sacsave called cisternea. The cisternea with associated vesicles are called Golgi appratus. The Golgi complex system of interconnected tubules Ps present ground central stacks. Function of Golgi appratus: The functions are foll owing 1. Cell secretions: These are concerned with cell secretions. For indance, In mammals, the pancrease Secretes gran wes. The granules Contain enzymes that hop in digestion.

