DATE: __/_/_ Part - II Explain complex concepts in simple terms. Section - I Use real-life examples to illustrate principles. 2 Include diagrams and flowcharts to illustrate processes. Discuss practical applications of Show all steps and working for the substances that save fat soluble and working for the substances that calculations.
Use diagrams and graphs to liney are essential for cell signaling and illustrate concepts.

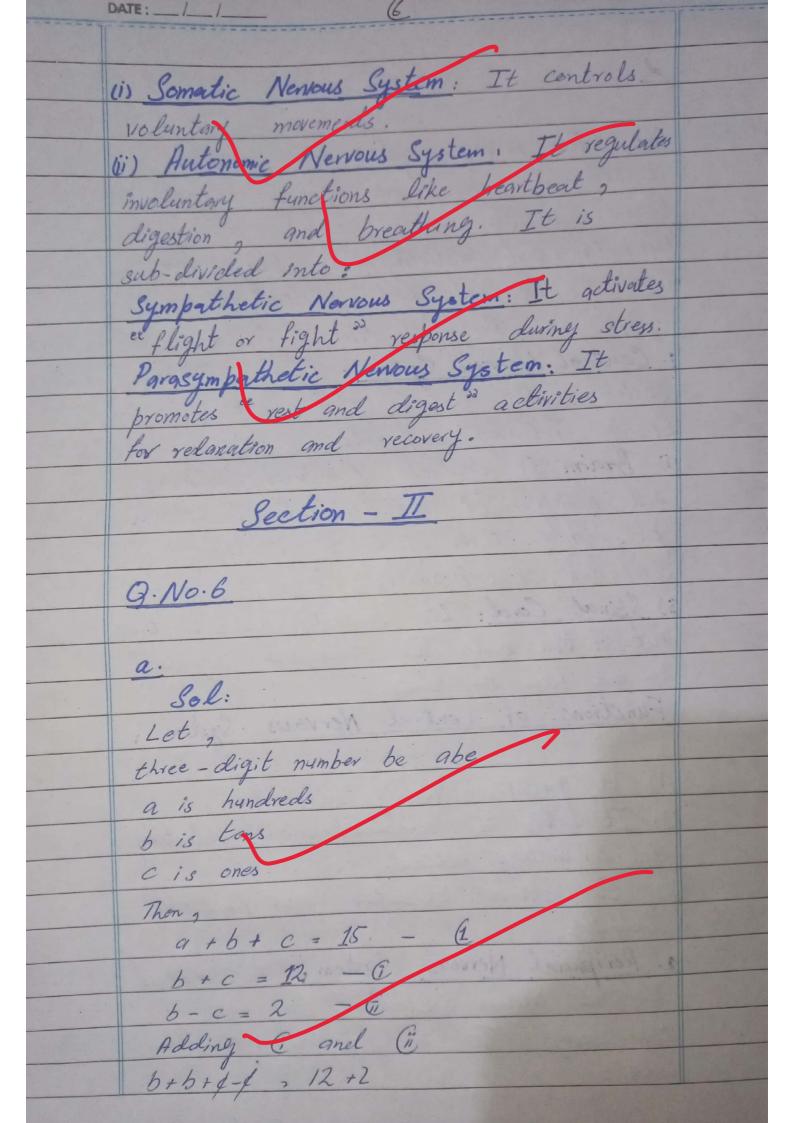
Cell structuring. They help in storing energy and making hormones. They are also part of the cell membrane. Lipids are characterised into multiple types. 1. Types of lipids: (i) Fats: These lipids give human body the energy that it requires to function properly. (ii) Waxes These lipids are esters of fatty acrds. (iii) Phospholipids: These lipids are the key components of egle membrane. (iv) Triglycerides! These lipids store and transport (V) Stevoids: These lipids play an important role in cell signaling (Vi) Complex lipids. There are other complex as cholestrol. lipids as well such

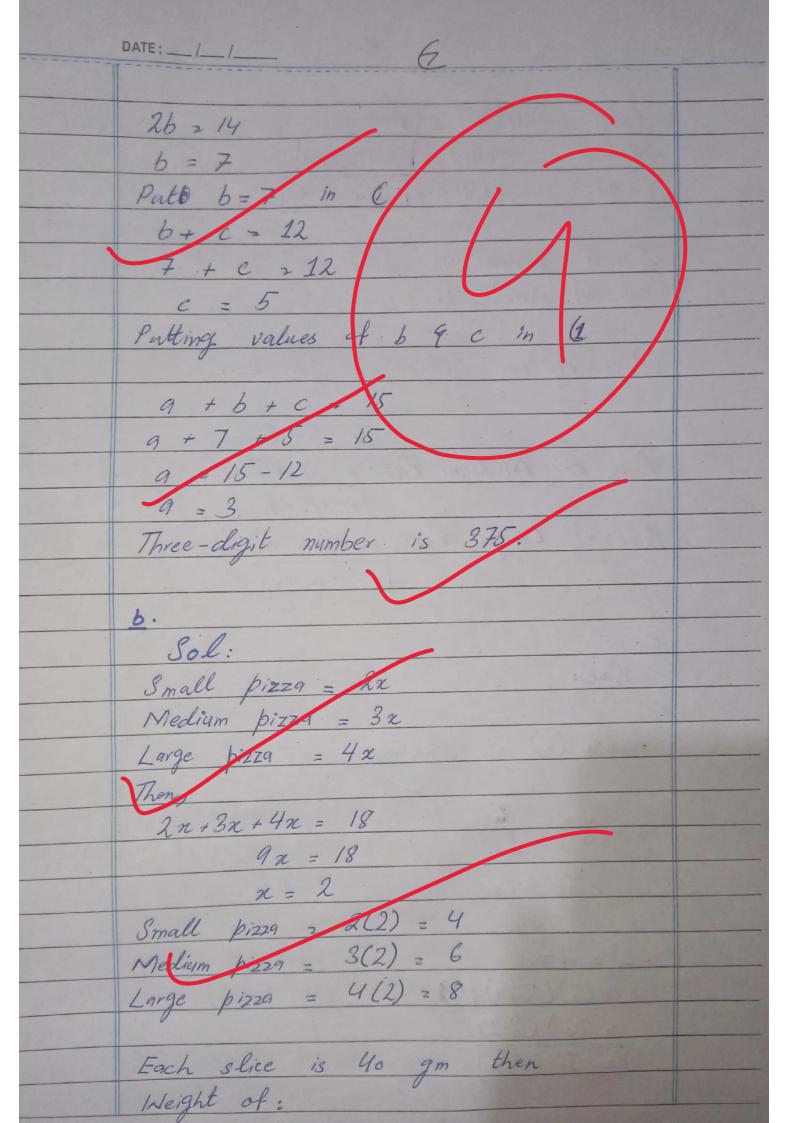
DATE: __/__/__ emissions compared to mass use of cars. (ii) Smart Technology: Companies like Xiaomi make smart home technology such as motion detection light switches. Such technology helps control energy use based on need and prevents wastage (iii) Recycling: Recycling used materials uses less energy than entracting raw material over and over and manufacturing new products. in Behavioural Holjustment. Practices such as making sure to switch off lightles and unplug appliances when not in use can quite beneficial. (V) Tree Regulation: Trees Regulate temperature and counter urban heat theis reducing dependence on air-conditioners during sum (vi) Solar Ponels: Installing solar panels at home pan help reduce dependency on grid part supply this reduce need non-renchable energy (vii) Home Insulation. Home insulation can help reduce use of heaters during solder months. (in) Awareness Campaigns: Iteal governments can carry awareness campaigns to educate people on energy conservation. n) Sustainable Agriculture: Renewable - energy powered irrigation methods can help in saving

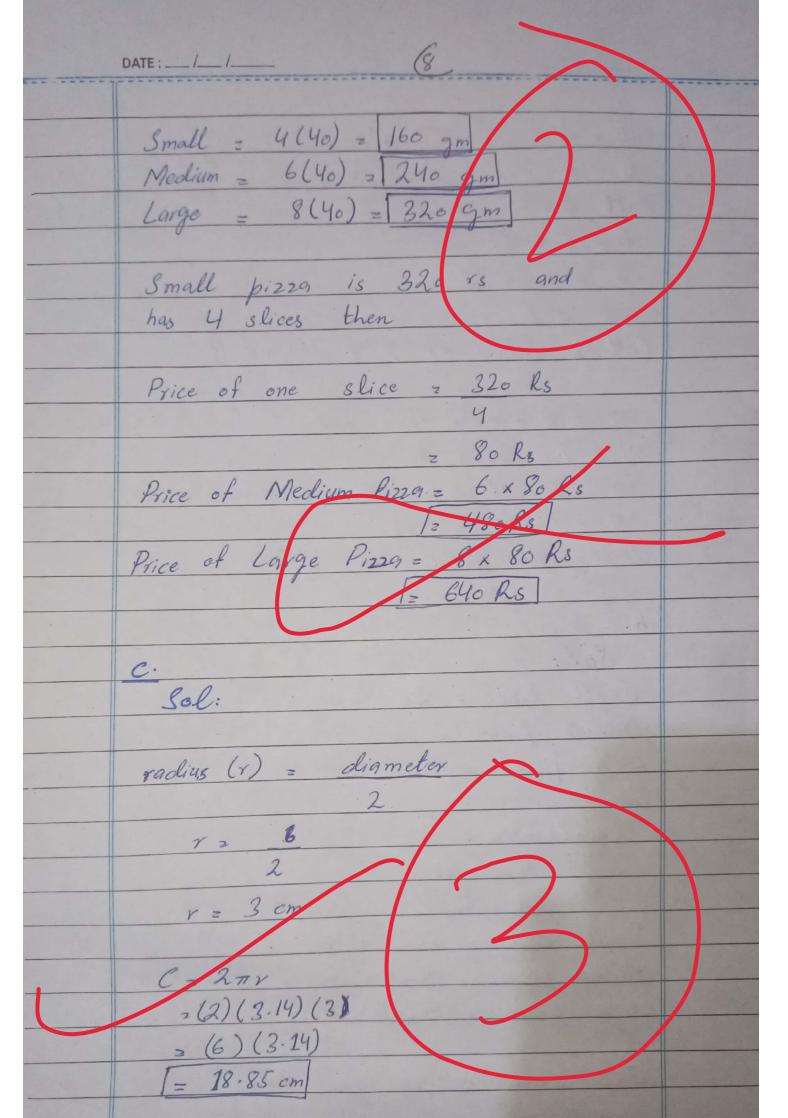
DATE: __/__/__ bally in agriculture dependent countries. Ans: Hydrogen bonding is a dipole-dipole attraction bonding. It is weak. It bonded to electronegative atom interacts with another electronegative atom. Structures as Enamples: Water (H Hydrogen Bonding Each water molecule forms four hydrogen bonds. Ammonia has electronegative atom nitroger connected to hydrogen atoms.

DATE: ___/__/___ ol. Ans: The nervous system is a complex system of nerves, neurons, and cells that transmit signals for purpose of sensory information and ecordination of body? s actions. It has two main parts, Central Nervous System and Peripheral Nervous System. 1. Central Nervous System: Central Nervous System is the controll center of body. It has following components: (i) Braine It controls thoughts, emotions, and memory. It is devided into three parts. These three parts of se cerebellum, and brainstem. (i) Spinal Cord: It egnnects brain to rest of the body. It transpits signa to and from the brain. Functions of Central Nervous System (i) It processes sensory information.

(ii) It helps in coordination of volumery and involuntary actions. (iii) It stores information and facilitates learning. a. Peripheral Nervous System. It connects Central Nervous System to the rest of the body. It is further divided

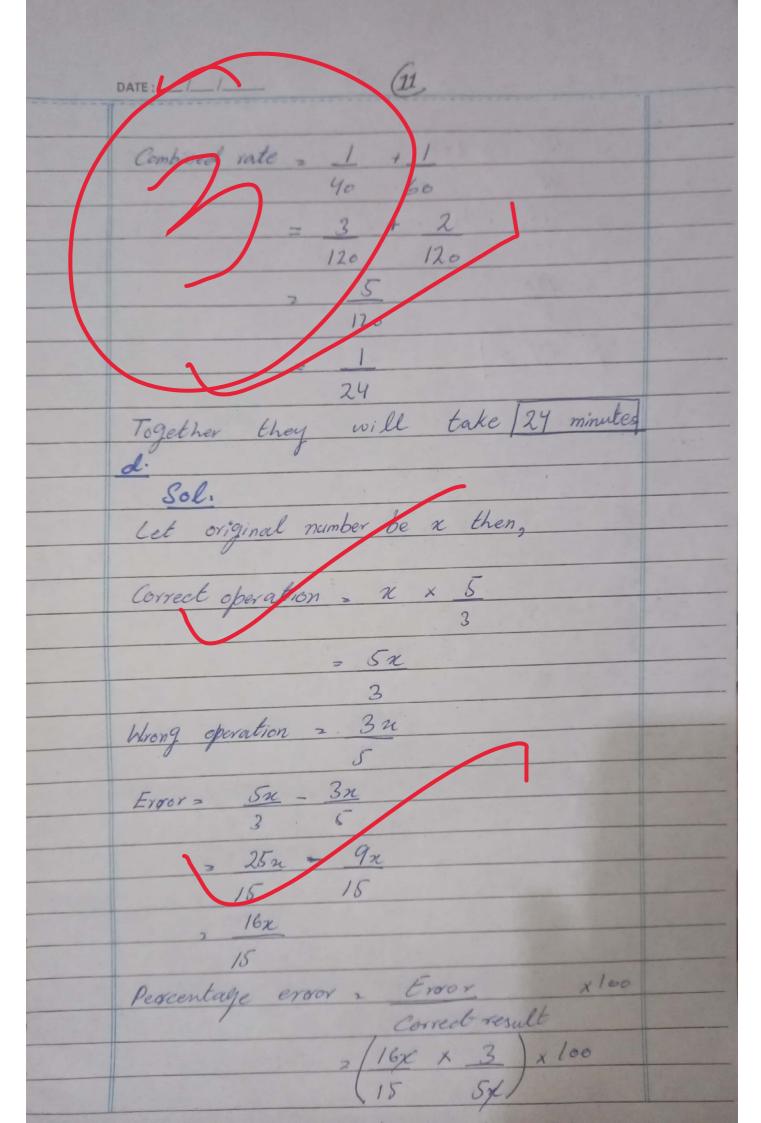






DATE: __/__/__ Area = TTY2 A = (3.14)(3) = (3.14)(9) = 18-3 cm2 Sol: 1. 13, 24, 46, 90, 24-13 = 11 90-16=44 Nent difference z 176 178 176 6-5 21 9-6 = 3 14-925 21-9-7 Nent term = 9 30-21=9

DATE: __/_/_ Q. No.7 a. is Intelligence Quotient Ans: I.q. Emitional Quotient. E.Q. 15 Sol: Let present age After 2 years, lo years before x-10 Then 2 x+202 10 x (21-10) x + 20 2 lon - 160 10x-n = 100+20 9n 2 120 n = 13.33 Amans age 13 years and 4 months Sol: Peter = 1 lawn per minute John = 1 lawn per minute 60



DATE: ___ /__ /_ 48 64 %