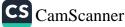
Date Part-II Section-1 Question -A. Briegly explain lipids. are some major + What are Some major types? What are their junctions? Lipids: the word "Lipos means blocks of lipids, are patty acid, and steroids Characteristics of Lipids Charateristics of lipids are given delow: They are the most heterogenous group of Substances Insoluble in water and soluble in organic compounds like either alcohol, Chloroform, Benene etc Conductors of heat and 3-Clectricito tats, sits and steriogs are the 4most impostant hpids Lipids are closed as saw material in the mone facturing of detergents, Varnishes Olishes Cosmectics and Pharmaceuticals Good Source of energy and sesesvoirs in our body Integral part of Portoplasm and Cell



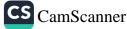
Dute Major types of 1 ipids. Simple Lipids Compound Desived their cenctions p/e ipids: Compounds oils. ommon jats and ompound Cipids ompound lipids are compolend and group DOSSE ospholipids (Phosphosic acids), (corbohychates) and ipo protein



Date. Derived Cipids: are these erived lipids Cobstances erived by hydrolysis Compolend and Sterols, Vitamins and lerpensis. Question-2 (R) list the few measures stainable uses Measures of Energy Conservation: 1- Switch to ED Lightening LED butos consume less ever Than the traditional incandescent bulbs. 2- Use of energy efficient appliances: use appliances with star Label Energy which andicates they Signature.

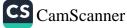


Dute\_ meet energy expiciency standards. 3- Insulate buildings and homes: Proper insulation can reduce heat loss in the winter and heat gain in the summer and temperature maintained. 4- LICE Power Strips: c. cuch lug the election Ty and Computer into power strip and furn of not climinate Stand by power consump Use Energy Monitoring Tools 1 like the opstats and Jac/ idea USA Och an bring ar Conservation dig perence actaina lesources 01011 Colar Panel Wind ener Conves



dillo

Date. Usage of Conservation Daigrom Chart Ulage paset votion Souther 10 Gutec Ros Switch to 75-90% Industries (15 dep-1jost Deparatment ED lighting ments and also car Caport. oppliances Fordustores State 2-3-20-50% Osego (19 Energ Insulate buildingsand isverment Depactment homes Department Use Power 5-10%. Home Clogy US Error 4-Strips Depastma Energy aponitoring 5-15% Home Clarge (IS Energy Departma Tools 16-201 out Deputim 6. Hom Carge Department liances nd lights on tse.



Dute Puestion-2 (C) What is hychogen bonding? ive claborating structures a cample. Explanation of Hydrogen Bonding: Mydrogen bond is an intra-molecular bond formed between the hydrogen atom of one molecule and The most electronegative tom of an molecule. During on whic of att dipole-dipole inte very important in a Ungl p ping Hydroden The two a breaking of Hya helix toger of double Example H,O H, S+L Pais

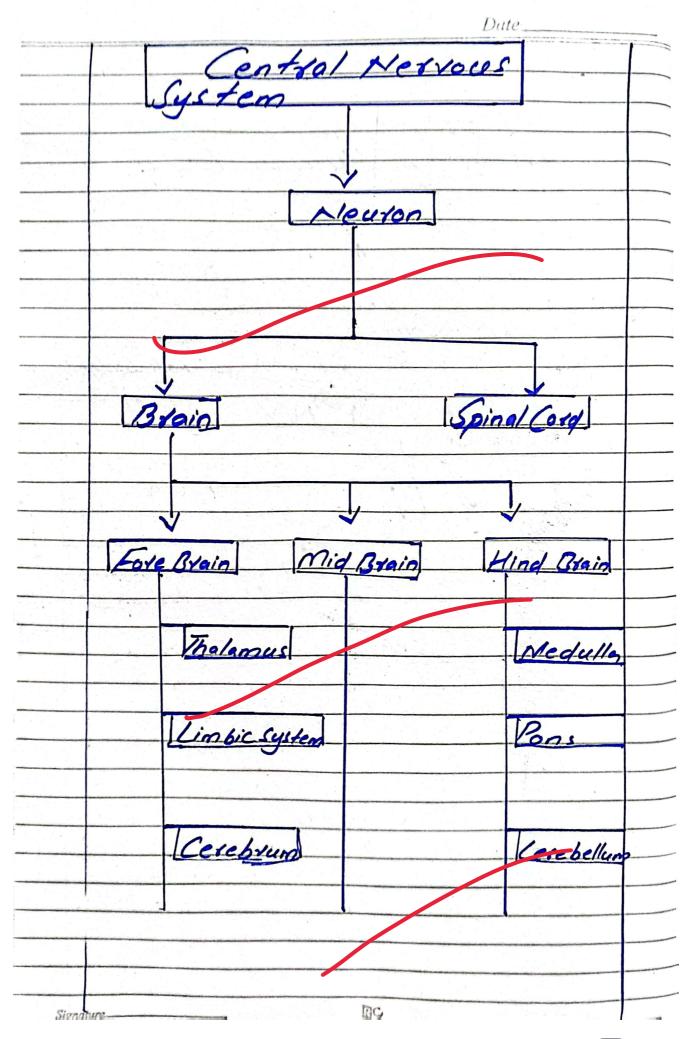


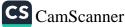
Date\_\_\_ as example: 420 (water molecule) can pour Hydrogen because it fight number of positive drogen and love pairs so that very one them (as mentioned in Huchuse) involved in the 4ctogeo bongine - Include more diagrams and illustrations - Use clear and concise language - Label diagrams and graphs clearly - Provide detailed explanations Organize answers with headings and subheadings



Date\_ Question-2 (D) Discuss the Nervous Custern of Human Body of Human Body. Leve brum Thalamus Hypothalamus Spinal Cord Oblongata Schucture of Brain grain of Haman:







Date 1- pleutoni Stauchural and Functional unit and Spinal Consists of brain Brain: Protected by the hard bone called Chanicem, a layer colled menings and Cerebiospinal fuid, divided into and Hindbrain 3- Forebrain: divided into the Ports Shalamus, limbic Sistem and Cereb-1com 1- Thalamus: Hanspers the Sensory information to limbic System Sensory Typimation includes adjutary and Pisua 11- (imbic System unther divided into three a. Hypothalanus: controls body temperature, bunger, menstrual cycle. Water balance and sleep-walke cycle. 19 Na



Dute\_ 5-Amygdala: produces Sensation , punishmen and feelings Hypocomples: Controls long nid Brain: Connects the forebrain with hind brain, contains reficular tornation important for Screening input information selay Center for auditory inportation also controls seplex movements anci <u>S- Hind Atain:</u> Consists of three parts medulla, Pons and Cerebellum. i- Medally: Controls Steathing heart fate, blood pressure and Cwa lowing. 11- Ponsi Controls fransitions 6/w Sleep and Walkerulness. iii- Ceschellum: impostantin Condinating movements and maintaining position of the body also involved in learning and memory storag



Date 6- Spinal Cord: Medulla Oblongato matteries davn inte an oval shaped hollow cylinclet, tenning through vertebral Column Called Spiral Cord: Sphaped like a butterfuly with grey matter containing Central Canal. It serves as pathway between disservent parts of the body and brain: 31 pairs of nerve originate from spinal cord called Spinal nerves: and 12 pairs originate from the brain called Cerebral or Cranial Derives: netves.



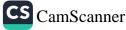
Dute\_ Duestion-4 (A) What is Hepatitis? Explain its Causes Symptoms and Preventions. What is Hegatitis? The condition in which inglammation of liver caused by virues bacterial infection of Continuous exposuse alcohol, drugs of toxic chemical tound in actoral sprays and paints is colled Repatitis. Causes of Heppitis: Some Cause are given below! Inal Hepati and to. 2- Bacterial Investicus Hepatitis: Bacteria lille E. Coli and Salmenella. 2- Parastic: Parasites like Plasmodium palciparcem and Toxoplasmo, gondii. 4- Acleohol Consumption: Excessive alcohol causes Lepafifis. RG Signature\_ No. -



Date - Toxins and chemicals; Carbon Tetrachloride, Vingi choride cacese Repatitis. Genetic Disorder, Genetic disorder like Wilson's disease and alpha-lantisypsin depicience ymptoms of Hepotitis: following and the symptoms of litic. Dat General Weakness and fatique. of Appetite Abdomina/ Pain. Tendesness Jacendice 7- Tellowing of skin and eyes 8- Tellow color occurs when lives fails to break clown excess yellow colorbile pigment: Preventions of Hepatitis: bollowing are and Hepatitis: preventions laccines are available to prevent hepatitis A and B. and immune globalin also prevents from hepatitis A and Bit they are given within exposure of two weeks. RG Signatu No.



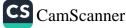
Date\_\_\_\_\_ 2- No vaccines are available to prevent from the injection OF HEV HEV and HEN. Best protection against Virces is to a sid high Sist activities like nen rose he clear nerdla , Suringes and azers ÷ 1.3 . DG Signature\_ No



Date. Question-4 (B) Elaborate a Lew methods Oteseivation. Introduction to the Concept Food Peretservation Food is Preserve by the Preservatives which are substances or chemica added to good, beverages, Pharmaceutical drugs boiligical Samples Cosmetics decomposition by microbial growth is preserved: platental food preservatives: Material Lood preservati may also called them Foodition food preservatives like Salts Sugar alcohd Vinegar And also good is preserved though botting, preezing and salting RG No. gnoture



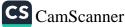
Dute\_ 2- Chemical Food preservativees rsed now a days and seem and most expective be hest longer Shelf life of food. ngoates = Solicen bengoate and benzoic acid = Sodicem Nitrate = Sulphur dioxide aphites Sorbates Sodium Sosbate and pottassion Soubate Artificial preservatives are demical substances that the growth of bacteria layed discolorization age and its rictobial Agents = Sorbates les, Benzoatesxidants= Vilamin G. C and Butylated by cho xull tokene. 2- Chelating Agent = Phosphates and Citric Acid.



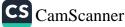
Dute\_ 3- Complete Fertilizer: Contains all ingredients necessary Los the plants growth. Guono: 4- Incomplete Festilizers: Festilizer that contain one of two needed elements. Eg: Phosphate, Pottassicen Nitsate. - Micro Fertilizers: Contains dements which are repaired in Small amount. Eg Boton, Zin



Date Duestion-4 (D) of Human teeth? Cloper Jaw Incisors Canines D Third molan 2nd Motors Det Malass 00 ower Jaw Structure of Human > Enamel Crown --Dentin > Root Blood Vessels > Messe anoture.



Dute\_ Structure of Tech; Visible postion of both is Colled crown and portion he beneath the gum line is joot. Human deeth are made of focer distinct of Assues which are mentioned Selow 1- Enamel: outer layer of tooth, hardest substance in the human body. Enamel layer is about oilb cm this the which protects the inner layers of the teeds Kom bacteria and changes in Temperature from hot and Cold. Beneath chamelis dentin, L Similar to buman mineral materia 3- Pulp: wify beneath the Rate dentin Called Pelp which contains blood vessel. Carry odygen and nutrients to teeth news fransmit pain and femperature sensation to brain. 4- Cementum: anchors tooth to jaw bone. 'Er. Signature



Dute\_\_\_\_\_ . = 11 -4-Molan Be bigg the premolars are the ars Chewing 15 GW YCY , Second and Molars are oft nelars vielom feeth

