Date: Mock: 6 Name:- Laiba Maheen Batch: Online 70 (15b) Provide comprehensive Section: 1 answers with clear, concise explanations. Question:-3 Edify your answers with a) Explain and draw diagrams - Structure of Sun:-Photosphere Chromosphere choline zone Corona Radiative zone Convection zone Structure of the sun includes the internal structure as well as the outer atmosphere of the sun. . Internal structure: 10 Internal structure of the sun is mainly divided into three three Parts, following are the parts Of sun's structure:i) Core:-Core is inner most region of the sun. The nuclear ficeion reaction of Hydrogen converting into Helium Occurs in the core, making it the hottest part of the sun.

Date: 2) Radiative zone:-It is the second region, which comes in between core and conrection zone. It is further divided into two parts. The area closes to the core is known as tachdine zone, while the area closer to convection is known as zone radiative As the name zone suggests, this zone transports electro-magnetic radiations by photons. The energy from the inside of sun travels outide. 3) Convection zone:-The outermost layer of the sun. After this larger the sun's atmosphere starts. Convection as a process or mode is used in this layer to transfer energy. . Atmosphere of can:-Atmosphere of sun is also divided into 3 parts:i) Photosphere: The innermost layer of the sun's atmosphere, lies above convection zone. It is a visible surface, and is the area from where most of the sun's energy is emitted. 2) Chromosphere:-It is the layer above photosphere.

It appears or emits reddish glow due to super-heated hydroge burn-off. 3) Corona:-It is the sun's putermost atmosphere layer. It appears as white streams of gas that travels outward into space. Solar flares and colar winds occur from corona. b) What is a trunami? How ...? - Tsunami: Tsunami is strong set of waves of water that travel towards land opposite to there source of generation. Tsunamis are generally created tecause of earthquakes in the ocean. How are Tsunamis generated:-Tsunamis are generated due to earthquakes the oceanic (tectonic) plates move causing earthquake which shakes the above resting water. Water travels in all the directions outwards from the source, same as how seismic energy travels away from the epicentre. Secondly, a trunami can be generated by underwater landslide, there

Date:___ is land beneath the water, in certain cases there is a landstide In the ocean causing water to travel due to the disturbance. torrally a volcanic eruption can cause tranami, as the eruption and the lava causes water to movery leading to waves wates Recent Tsuramisionga Trunami, which occurred in January 2022 due to voclamic eruption. 2) 2011 Tohoku earliquake which also led to a tsunami. 3) One of the deadliest trunami was of Indian ocean trunami in 2004. An earthquake of 9.2-9.3 magnitude generated this tounami general's c) Discuss environmental polluhion....? - Environmental pollution:-Environmental pollution includes any pollutant that disturbs the ing pollutant that asturbs the natural composition of the environ--ment. It can be in any type of pollutant including solid, liquid or gaseous pollutant. i e Solid waste including industrial and domestic waste, Tonic water

of industries and pollutants emitted by all anthropogenic activities. · Harmfull effects of environmental Disturbs the ecocystem 2) Loss of habitat for animals, deforeitation 3) Health issues for humans i.e. Breathing issues, lungs problems etc. Grobal warming & climate change Resource exhaustion - Fresh water sources contaminated, loss forests and usage of non-renewable resources. · Measures to curb environmental pollution:i) Shift towards usage of clean energy. use of natural 2) Sustainable resources 3) Re- forestation 4) Control carbon emissions 5) Waste management. d) What is wireless communication; Wireless communication: It is the transmission of information Horough wireless means. The use of cables, wires

Date: _ any other physical mean redundent in this commun this communication. OT includes GPS, phones, Internet Wifi rewices Bluetooth etc. Working of satellite:-Satellite works on winders in 15 nunicevion. A satellite its responder devices anc earth, both of these are or devices connect to each other signals. It makes via sending Communication, Location identification etc easier. Signats are électro--magnetic waves that transfer the data from one device to another. ionivina dava of saw and Question: 5 mondulla Differentiate between a enlargotic? Prokaryotic Cells Eukaryobic Cells 1) Have well defined lack nucleus nucleus Contain cell-membrane. Lack cell-membrane bound organelles. bounded organelles. Greneraty larger . Smaller in size n size bes every organelle is fully 4) DNA in an organised. Circular or nonform chromosomes. Chromosomal DNA.

Date: 5) i.e. Animal, forngi or · Bacteria plants cells b) What is global warming? ...? - Global Warning:-Rise of global temperatures due to human activities w which further causes climate hange. The process of glubal warming initiated after poslus trialisation due burning, causing emissi pore green house ga 40 fossil fuel emission gases (G/G). ausos more in J heat to trapped the earth causing troosphere ît +0 wasm Kysto Protocol: International agreement or that was apric in 1997. treaty Eame into force in 2005, the main target of this protocol was to reduce the green house gas emissions. For implementing this target, the protocol setted binding targets, and punishments for those who could not meet the tangetrinis was for the European Union and industrialized countries. This protocol was adopted under United nations

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Date: . framework convention on climate change (UNFCCC). c) Write a detailed note on GIS? CONT - Greographic Information Systemi-GIS stands for geographic information system. It is a computer that captures, stores, analyses System displays data related to and or earth. ation în mapping, It helps finding locations. ued is on other many locate identify and 0 areas. G is used for risk mapping in calamity vielnerable areas. education, agriculture helps in Also other and fields. in d) Briefly describe anti-oxidants? Anti-oxidants:-· Anti-oxidants are the compounds that prevent oxidation. Oxidation is a chemical reaction that can create free radicals. Ised in industrial products Used in extend there shelf life; +0 polymers, lubricant.

Date: _ Help prevent body from demages; disease prevention, brain diseases prevention.
Used in food to prevent it from deterioration.
Natural preservatives; vitamic & E.E.