Dog and Don'ts for Generaral Science &
Ability Papen
Hithere, you've done well. Know that
acquiring Remove done went. Thow that
reproducing it in paper according to what's
asked is another. There are a few things I would like to highlight.
1. A 5 marks part requires at least 2 and at
Amax 3 osices of a paper Know that there can
exchanging: electrons, atoms, acheeve address
marks are divided accordingly. So, address
all of them in a just mannet helps
210Focus on time management. You get 35
minutes to solve one question and about 8
minutes pér 5 mart Manage your time
accordingly while Chlorine has seven
Bufer shelly while Chlorine has seven Bectoun need to understand that your paper is
supposed to look more scientific than
theoretical. So, add flow chaits and diagrams where required. A. Your handwriting and heathers can be
where required.
4. Your handwriting and neathers can be
neally impactful. Avoid cutting and overwriting.
5. Focus on Joint spellings and your grammar.
Here, in GSAublece dingsdeduction in marks
but your expression will definitely create an
impactiney share electrons to feel
Gunability portion, give explanation for
analytical ability encouron in words. You need
to understatio that a 5 mark part requires all
steps written and explained.
Good luck for CSS 2025. You're gonna rock
in sha Allah. :) Scanned with CamScanner

allows all atoms to achieve a full outer shell, making the water making the water making the water in And diagrams and balanced. This covalent bond holds the water molecule Logether, forming a unique and essential compound for life. **(b)** Doping in the context of electronics refers to the intentional addition of impusifies to a semiconductor material to modify its electrical properties. This process is crucial in creating specific types of conductors Or semiconductors, essential for the functionality of electronic devices like transistors and diodes. By doping Semi conductor, engineers oan tailor the conductivity and other characteristics of the material to suit the desired application, enoubling the precise control of electric current flow within electronic circuits. An example of doping is: adding specific impurities like phosphorus or boron to a semiconductor material such as silicon This process alters The semiconductor's conductory properties, making it either a better insulator (p-type doring), which is escential For creating different types of

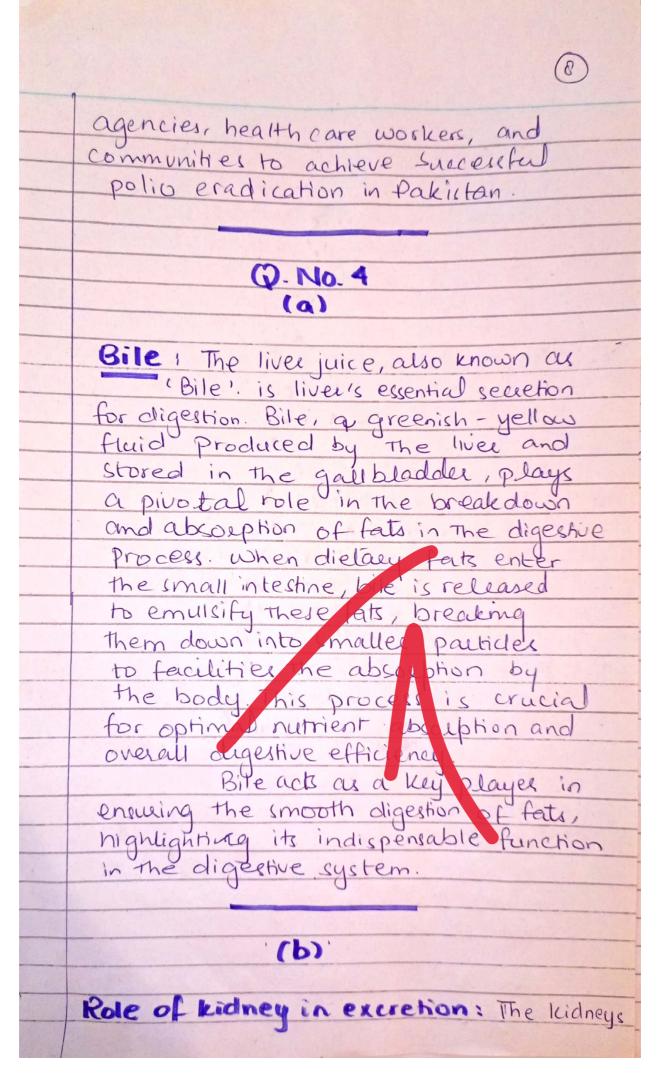
(3 electronic components. there are different type of ceramics, each serving unique purposes. Traditional Ceramics : 1. Traditional ceramics are typically made from naturally occuring raw materials like clay, silica, and feldspar. These ceramics include pottery, porcelain and tiles. They are shaped and fired at high temperature to create dishes, vases and beicke. Advanced Ceramics: 2. Advanced ceramics make technical applications due to their exception properties. They are often composed of non-metallic inorganic compounds like oxides, earbides, and nitrides. They are used in electronics, aetospace, and automotive industries. Refractory Ceramics 3high temperature and harch environments. They are used in kiln,

furnaces, and industrial processes where traditional materials would meit or degrade It provides thermal insulation and chemical resistance in applications such as metal casting, glass making , and incineration. Bioceramics : 4-Bioceramics are material used in medical and dental application They can be found in implant prosthetics and dental crown due to their biocapabilities and ability to integrade with human body. It mimic the structure of natural bone, promoting healing and tissue growth. (c) Global Warming: Global means something that affects the whole would or relates to the entire Earth. So, when we talk about global warming, we mean the warming of the entire planet due to human activities that release green house gases into the atmosphere.

5 Some of Merits and Demerits of Global warming are given below: Merits of Global Warming Longer Growing Seasons: Global warming can lead to longer periods of suitable weather for crops to -grow, potentially increasing agricultural yrelds. 2. Increased Agriculture Productivity: In some regions, warmer temperatures and extended growing seasons can boost agricultural productivity and allows for the cultivation of new crops. Expanded Access to Matural 3 -Resources, Melting ice in regions like Arctic can provide easier access to natural resources such as oil and gas, opening up new economic opportunities. Demerits of Global Warming Rising Sealevels: Global warming Contributes to the melting of 1glaciers and ice enps, leading to rising sea leads that pose a threat to coastal areas and ecosystem.

6 2. More Frequent Natural Disasters: Warmer temperatures can fuel more intense hurricanes, wild fires, and other matural disasters, increasing the risk to human lives and property 3. Dissuption of Ecolytems and Biod-iversity: Changes in climate patterne can disrupt ecosystems, threaten concres with extinction, and alter the balance of natural habitats. Adverse Impacts on Human Health: Heatwaves, the spread of disease, and 4. other health sist are exacebated by global warming, affecting human well-being and public health. 3 (d) Polio : Polio is a viral infection that Polio: Polio is a viral infection the can cause paralysis and, in severe cases, can be life-threatening. It mainly affects young children and is transmitted through contaminated food, water, or contact with an infected person. Valcination programs have been crucial in reducing the spread of Polio globally. It symbol fever, fangue i heedrache, vomitting,

7 stifness in the neck, and pain in the limbs. Pakistan is fairing multiple challenges in eradication of polio from the country. Some of the challenges are weitten below: Access to Remote Areas: Difficulty . in reaching remote or conflict-affected regions hinders vaccination efforts. a- Vaccine Hesilancy: Misinformation and misconceptions about vaccines lead to reluctance among some communities to vaccinate their children. Healthcare Infrastructure : Inadequate 3healthcare facilities and resoures pose challenges in delivering vaccination campaigns effectively. Reaching All Children Ensuring 4, all children receive vaccines is challenging due to logistical issues and reaching marginalized populations. Efforts to address these challenges require collaboration among government



9 are pivotal organs responsible for the filtration of waste products and excess fluids from the blood stream, leading to the formation of wrine This filtration process is essential for maintaining the body's internal environment in balance, known as he neoetestis. Additionally, the udneys play a crucial role in regulating electrolyte levels, such as socium and potassium, in the body to ensure optimal functioning of cells and organs. Moreover, the kidneys contribute significantly to blogd pressure regulate through the renin cago angiotensin cardosterone system, which helps maintain blood volume and pressure with in a harrow cange. The kidney multifaceted functions in use removal, fluid balance electrolyte regulation, and blood pressure control highlight their indispensable role in the excretory system. (0) Solid Waste Management: Solid waste management refers to the systematic handling, disposal, and recycling of colid waste materials to minimize environment impact

and promote susteinability. It involves the collection, transportation, treatment, and disposal of solid waste to ensure the protection of public health and the enviroment. Different Methods of Solid Washe Management: Source Reduction: Involves reducing 1waste generation at the source by promoting the use of eco-friendly products, minimizing pakaging, and praticing waste prevention strategies. 2. Recycling: Involves The collection and Involves The collection and processing of recyclable materials like paper, glass, plastic, and metal to convert them into no products, reducing the appoint of waste sent to landfils. 3. Composting of organic waste such as food scraps Involves the decomposition and gard waste into nutrient-eich compost, which can be used to enrich soil and promote plant geowth 4. Incineration: Involves the controlled

burning of solid waste at high temperatures to reduce its volume and generate energy theory The combustion process. 5. Landfilling: Involves the disposal of nonrecyclable and non-compostable waste in designated where waster compacted and coversel to minimize environmental contamination. Waste-to-Energy (WTE) Conversation Involves the conversation of the waste 6 into energy theorigh processes like anaerobic digestion, gasification, or Pyrolysis, which can produce electricity, heat, or fuel. (d)Define the terms: **(i)** Anaemia: Anemia is a medical condition characterized by a deficiency in the number of sed blood cells or hemoglobin in the bo blood, leading to reduced oxygen carrying capacily. This deficiency can result from various factors such as inadequate iron intake, blood loss,

impaired red blood cell production, or increased red blood cell destruction Common symtoms of anemica include fatigue, weakness. Pale skin ishortness of breath, and disziness. Treatment for anemia typically involves addressing the underlying cause and may include iron supplementation, blood transfusions, or other interventions based on the specific type and severity of the conditions (ii) Appendicitis: Appendicitis is a medical condition that involves the inflammation of the appendix, a small pouch-like organ located in the lower rightabdomen. This inflammation is often due to blockage of the appendix, typically by fecal matter, a foreign body, or infection. Common Systems symtoms of appendicitis include abdominal pain that starts near the belly button and moves to the lower rightabdomen, loss of appelile, nousea, vomiting, and fever. If reiffuntreated, appendicitis can lead to complications such as the rupture of the appendix, which can be a serious serious medical

emergency requiring immodiate surgical intervention to remove the infected appendix. Early diagnosis and prompt treatment are crucial in managing appendicities effectively and preventing complications. (iii) Spleen: The spleen is an organ located in the upper left part of the abdomen, near the stomach and behind the left ribs. It plays essential filtration, and storage of blood cells. The spleen helps filter out and destroy old or damaged red blood cells, produces certain types of white blood cells, and stores blood platerets. Additionally, the spleen acts as a reservoir for the blood that can be released into circulation in cases of emotionary , such as during bleeding or when the body heeds extra blood celle. (iv) Add diagrams as nearsightedness, is a refractive

error of the eye that causes distant objects to appear blurry while close objects can be seen clearly. This Condition occurs when the cyeball is too long or the cornea is too curved, leading to light rays focusing in front of the retina instead of directly on it. Byopia Can be corrected with eyequines, contact lenses for refractive surgery to relp focues light on the reli roperfy, allowing for character distance vision. (v) Isotones, Isotones are nuclei of atoms it have the same number of neutrony comber. The co but different number of protons. This meany isotones belong to different chemical elements but have the same neutron number. The concept of isotones is important in nuclear physics and helps in understanding the stability and properties of atomic nuclei.

