**OBAC 101 NATURAL SCIENCE**

**1. Explain Disinfectants. Discuss the harmful chemicals involved in it.**

Disinfectants are chemical agents used to eliminate or significantly reduce the number of harmful microorganisms on surfaces, ensuring cleanliness and minimizing the risk of infection. These substances play an essential role in maintaining hygiene in various settings, such as hospitals, households, and public spaces. While they are indispensable for controlling the spread of diseases, disinfectants often contain harmful chemicals that pose risks to human health and the environment.

Common disinfectants include alcohols, aldehydes, chlorine-based compounds, peroxides, and quaternary ammonium compounds (QACs). Each of these substances targets specific microbial

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**2. What do you mean by Unsought Products? What are the challenges of marketing an Unsought Product? Write down the various marketing strategies required to market an Unsought Product.**

Unsought products are goods or services that consumers do not actively seek or think about purchasing. These products often fulfill needs that are not immediately apparent or arise from unforeseen circumstances. Examples include insurance policies, funeral services, emergency medical supplies, and niche technologies. Unlike convenience or specialty products, unsought products require proactive marketing strategies to generate awareness, interest, and demand among potential buyers.

**Challenges of Marketing Unsought Products**

Marketing unsought products is challenging due to several factors. Firstly, there is a general lack of awareness or understanding of the product’s utility. Consumers may not recognize the

**3. Why is there a need for Food Preservation? How does it help in maintaining a constant food supply?**

Food preservation refers to the processes and techniques used to prevent food spoilage, extend shelf life, and retain its nutritional value. It is a cornerstone of global food security and plays a vital role in ensuring a steady food supply, especially in a world facing population growth, resource scarcity, and climate change. Preservation methods include drying, freezing, canning, pickling, and the use of preservatives, among others. The need for food preservation stems from economic, nutritional, and environmental imperatives, as well as its role in reducing food

**4. Discuss the need for GMO crops to help address global hunger.**

Genetically Modified Organisms (GMOs) have emerged as a promising solution to address global hunger by improving agricultural productivity, enhancing nutritional value, and ensuring food security in a rapidly growing population. GMO crops are engineered to exhibit specific traits such as resistance to pests, tolerance to extreme weather conditions, or increased nutritional content. These advancements offer significant potential to combat food shortages and malnutrition, particularly in developing nations where hunger remains a pressing issue.

**The Need for GMO Crops**

1. **Increasing Food Production:** The global population is projected to reach nearly 10 billion by 2050, requiring a significant increase in food production. Traditional farming

**5. How do technological limitations hinder the effective integration of Artificial Intelligence in healthcare? Discuss.**

Artificial Intelligence (AI) has the potential to revolutionize healthcare by improving diagnosis, treatment planning, patient monitoring, and administrative efficiency. However, the integration of AI into healthcare is hindered by significant technological limitations, including issues related to data quality, computational infrastructure, interpretability, and ethical concerns. These limitations pose barriers to achieving the full potential of AI, especially in critical areas such as patient care and operational optimization.

**Technological Limitations in AI Integration**

1. **Data Quality and Availability:** AI systems in healthcare rely heavily on high-quality, diverse, and labeled datasets for training and operation. However, access to such data i

**6. Discuss the importance and side effects of antibiotics in brief.**

Antibiotics are powerful medications that revolutionized modern medicine by effectively treating bacterial infections. They work by either killing bacteria (bactericidal) or inhibiting their growth (bacteriostatic), enabling the body’s immune system to overcome infections. While their importance in healthcare cannot be overstated, the widespread and often indiscriminate use of antibiotics has led to significant side effects and global concerns such as antibiotic resistance.

**Importance of Antibiotics**

1. **Treatment of Bacterial Infections:** Antibiotics are essential in treating a wide range of bacterial infections, including pneumonia, tuberculosis, urinary tract infections, and sepsis. They save millions of lives annually by preventing complications and fatalities