GSA Section A) Q 2. To not write lengthy paragraphs. Write Explain The dium sized paragraphs with heading or contrast questions. A Praw figures/diagram/flowchart where Start nevelatestion trom tresh pieges a paradigm Shift. Explain Mathematical Steps and the greater emphasis is planning for betton score line and holistic approaches 2. Change colour scheme for references to fundamental componenting the main of the and preventing 10. Wide page borders are discouraged. clised ford be reasonabl 12 Give more weightage to expressedly asked Preventive healthear Focus. - Nutrition as a foundation for prevention from disease. diet on health. Riet as Medicines :-Nutrient-rich diet act as preventively and × Therapeutically. * Tailored diets support the body's healing processes. Personalized Nutrition Plans: * Customized diets based on genetics, lifestyle, and health status Precision in dietary recommendations for preventing

63A discases. Management of Chronic Diseases:) * Dictary interventions for managing and reserving 6:0 chronic condition * Regulating blood sugar, blood pressure, and weight through nutrition Promotion of Gut health :- : * Nutrition's rele is maintaining a healthy get microbiome. * Gut health linked to immune function, mental health and digestion. Nutrition plays a key tak in managing chronic disanses, offering interventions That can regulate uital health masters such as blood sugar and blood pressure. It also contributes to promoting get health, a factor increasingly recognized as crucial for overall- well-being- By prioritizing nutrition, the reliance on pharmaceuticals may reduce, allowing for a more holistic and sustainable approach to healthcare - Educational initiative will be jud, empowering induciduals to make informed datary choices and lead healthier lives. Orgaing research will refine our understanding of the profound impact nutrition has on our health, forming the basis of evidence-based nutritional recommendations and intermentions

Question No. 2 Partickmarching Distinguish compositing Do not use table for comparison. Mswer Pyrolysis Incineration Composting PROCESS It is a bidegieal It is a thermal process floodysis is a process that uses that uses high Temperity thornal process microdyganism (1000 (800-1000°C) to that accuss in the bacteria fungi) to convert waste into ash, absence of onger, break down organic gares and heat energy. converting organic nateuals into liquid waste into nutrientand gaseous products rich compost-INPUT MATERIALS Various organic All types of maste, Primasly organic naterials (plastic, waste food scraps, including organic and a blei, biomass) can merganic materials, can yard timing | can be subjected. be incinerated. be composted. CUTPUT Roduces ash birorganic Vields bio-al synges, Produces compact; vesidues) heat energy, and char. Bio-al a valuable sail and gases (party becaux- can be used as conditioner and Pertilizer, beneficial able for energy). Ash a fuel, syngas needs proper disposal. for energy, and for agricultura char for various and gardening.

Incineration Rypolysis Composting ENVIRONMENTAL IMPACT Low emissions and Can generate ais pellitent Low emission environmentally friendly (e.g. Co, Nox) and compared to require stingent emission incineration; bio-al prometing secycling control systems to minimize can be a renewable of organic maste and reducing landfill environmental impact. Fuel source. ENERGY RECOVERY Does not focus Focuses on energy secondy Emphasizes energy through the combustion secarery through the on energy recovery. process, generating conversion of waste heat energy. into valueble fuels. SUSTAINABILITY Ideal for managing Suitable for maste Suitable for bicdegradable maste reduction, energy recovery converting a and promiting a and handling nonwide sange of waste Circular economy. recyclable waste materials into valuable fuels. Community Hcceptance May face opposition Generally well-Generally accepted by due to concern about Bavaerable communities emissions and potential

- 1 Part - Charles Question 2 The state that the same fast(c) :-Role of kickney in Ultine formation. The Richney's role in cirine Bormation involuei several stages. Filtration -Filteration =-Blad is filtered in the glomerulus, allowing water, ions, and waste products to enter the ornal tubules. Reabsorption :--Renal tubules reabsorbs essential substances (water, glucose, electrolytes) back into the bloodstream to prevent loss. Diagram? Secretion :-Certain substances are actively transported from blood into a the babular fluid for elimination or regulation. Concentration :-The loop of Henle helps is concentrating usine by reabsorbing mater and creating a concentrated medullary interstitution. Exerction =-Utine, formed after filtration, reabsorption, and secretion, is collected in the renal petuis and excreted through usethog-

Question Na 4 Part as Land Pollution ... an Land pellution is the contamination or degradation of the Earth's surface caused by human activities and natural phenomena. It inclues the introduction of hormful substances or alteration of land composition, negatively imparting the environment and ecosystems. Causes of land Pallution :-* Improper maste disposal= According to The world Bank's what a waste 2.0 report " World generates 2.01 billion tonnes of municipal moste annually, 33% of that not managed is safe manner. And global maste generation is expected to increase by Tot in 2050. * Industrial activities: According to UNEP Global Environment outlook 7 Report, 2022 "Industrial activities are responsibiled for an estimated 30-40% of all land popullation * Urbanization Rapid urban growt leads to increased construction, deforestation and inadequate cueste management, putting excessive pressure on the land and resulting is pollution and loss of nature

Question 4 Bott b-Main Goals of COP-27:-The main goals of COP-27 (conference of the parties to the UNFCCC) include: a) Enhancing glabal climate action by encautaging concrete emissions reductions. 2) Indementing the Paris Agreement and achieving its dijectives. 3) Addressing climate finance and support for uninerable notions. W Prometing adaptation and resillience to climate change. 5) Ensuring a just transition and sustainable development 6) Facilitating technology transfer and innovation. 1) Engaging stakeholders and raising public awareness. 8) Building capacity for effective climate response.

Question No. 4 Postic):-10 A 10 GIS= · · · · · · Geographic Information System (GIS) plays a crucial role in environmental science by providing powerful tools to capture, analyze, model and insudise spatial data related to the environment. Here are the Rey roles of GIS is environmental science Key Role:-* Analyzing and usualizing spatial environmental data, such as land use, negetation and palliteon sources * Real-time monitoring and medeling to understand enuironmental patterns and trends * Effective management and planing of natural resources for sustainability. * Mapping and analyzing habits, biodilessity, and ecosystems for conversion efforts * Assessing climate change impacts and aiding disaster management through modeling and analysis

General Science & Ability Section I Question 6 Part (a) :-1) 10,100,200,310, --pattern here seems to involve adding multiples of 90, 100, and 110 succesively. 10+90=100 A A MELER 100 + 100 = 200 200 + 110 = 310 310+120 = 430 So answer is 430 2) 3,7,23,95, ---The pattern here is multiplied by natural no. starting friem 2 and then adding natural no $(3 \times 2) + 1 = 7$ $(7 \times 3) + 2 = 23$ (23x 4) + 3 = 95(95x 5) +4 = 479 So onswer is 477

Question 6 Post (b):-You had to solve it for given Aroca = longth xwidth. perimeter of 114 cm. L= 3n-4 W= Sx+4 A = (3n-y) (2n+y) A = GN2 + 3ny-2ny - 42 A = GN2 + My - 42 ____ Area Question 6 Post (c):-As nishois 15 year older than Romi N=R+15->1 Sylax back nisher was 3-lines as old as Rom (N-S) = 3(R-5)N-S = 3R-45N = 3R - 15 + 5->12 N= 3R-10 putting eq. () in () we get R+15=3R-10R-3R=-10-15 -2R= -25 2R=25 REB Nisha=28year now for Nisha's age Romi= 15 years N=R+55 N=13+15 N = 28

Question No. 6 Post (d) SS Calculating J.C.M of 210, 252 and 294 210 910=(2)×5×(3) 105 21 252 = |2|x 2x|3|x3x294 = L-C-M= 2×3×7×2×3×5×7 J.C.M= 9+3+7 G.C.D 42 now. Oranges 5 contons 210 12 X - 426 Apples +26 6 contons 42 7 Pears contons 24 So largest pairs of caston is for pairs

Question 7 port (a):-.... as clerk accidently saised the prices by 20% instead of lowering so tag is 1+0.20 = 1.20 times than original price also price on tag Rs 80 was too high . So 1-20P= P+80 now 1.20P-P=80 0.209=80 P=80 0.20 P = 80 x 100 20 P=400 So original price was 400.