GSAinstance si H. IonoitastainU Coules: Contamination Distination (a) Difference between food adulteration and contamination: and pick total bayour (0 Food adulteration: 910 21/18 brok moit " Tood adulteration is the o physical, chemical or biological mon? degradation ploop 100000 (which in bod intentional shand for deconomical liph purposes? All algraps alk Intentional: It is done intentionally. Purpose: Economic gain is the purpose of food adulteration. Examples: Mixing water in milk is an example application de adulteration de 15909 1 Imposing heavy fines can cause Food contamination: somerebb 16 11 is the unintentional biological, physical ior ic chemical is degradation of food and it is cannot be traced back to any or individuals." pribupper cossom brow prave to be a helpful and

Unintentional: 14 is unintentional. Causes: Contamination by microspic organisms which cannot be seen with the naked eye and contamination of ground water by leachate from landfills are some of the causes, i notorelluto bos Examples: food contamination by 19 bacteria di like sala anella coro by hair and reacted and rodents have highing the examples. utbasihetni enob u Controlling measures of food adulterations offices book to Regular monitoring and regulation by govit badies sican steep perpetrators from to a culterating food. 6 împosing heavy fines can cause délerrence. : noitonimptinos booi This Pressure to provide quality food can help maintain the standard of food the boof to doit boop to Creating awaren is among the most masses regarding these practices in may prove to be a helpful and effective tool. 1

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Food preservation methods with me (b)examples: 65 W contine unotition NONDUICHEN i. Heating: Heating food to a certain temperature for a certain timere preserves food. Example: Heating to 121°C for 15 rouminutes ? Willspuall the offorde haimful bacteria including spores. . svitou blaig Freezing: Freezing restrict the ij._ movement of microorganisms present in food and thus medivates them. Example: Freezing proto Dov Dov mal below preserves food Rapid freezing recommended to notionibil that 15 of the law while counce curlight to Adding acids: Acids produced by Ϊί. some microbes inadiruate otherpio microber or - They can be added in separately. Example: Citric added soft drink proverver Them Bubbgno built sport 1196 (104090

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 Attempt the differences qs in a tabular form and add atleast 5 differences 6007 (d) Smotte: It is one of the 14. methods med for amore Inditional preservation Example: Formaldehyde produced of smake prevenues othern. In DODL 1010631 Chemical preservatives: These are V. specifically designed for preservation. Example: Sadium benzagte acts as preservative. 165/1297 ranino Proor movennen Explanation of www.alher variables: (0)Temperature: Radiation from the i soin heats the amosphere of the Earth. Indination of Earth at a sunlight to caula certain angle reach dufferent areas on Earth and south a result differently Same different Latitudes on temperature 11 101010012 differ Kesi Temperature Tropics Temperature more than Equator Royk travel Jess dittance (Temperature Indreases)

(i) Pressure: In Karth's atmosphere ,) () certain gases are supended like a blanket. Their presure i differsion Closer to Farth where cod day sintes a pressure is more. Fischer away from surface des dense air d causes pressure to decrease. no ribgol upon in Oldener when the Allantic its All ont the USA mosimud Kolia Earth >High pressure > piekare phenomenon in by solution Raud 52196 1196 Humidity: Humidity toirs thew with (iii) presence of water various in a 10 certain region in Farth's atmosphere. differs from region to region e.g. 1 Rain fotests are more humid than deserts. Deserts are mostly dry. Types of humidity: (1) Absolute humidity (2) Relative humidity

Cydanes: Cydones dare a disastrous (1) (d) natural phenomenon formed by low pressure weystems without a cost Examples: 010 1. AVOLTO DI AUDIONE U) Gyclones in withe North Pacifycus near Japan are called trunamis. (i) Cyclones in the Atlantic mear the USA are called hurricanes. u Explanation: - 1 201 Cyclones are low pressure system carrying fast winds. This phenomenon starts on an ocean where hot air being less dense Thes and creates Jow pressure mult eystem As they travel fait winds 19 them accompany MUDMOD 100 pressure

Question 2: Importance of renewable energy (D)saurces: Pieros in minimosi Loss Renewable wenergy posources are important inbecause they idde not in oproridepletion? runwitheoristy Solar mergy wind energy hyder chergy wand grothermal energy etc. Inportance with respect toto environment: uprene Lomball3)F RESS are environment: 19 friendly because they don not produces any distarming ogaler slike CO2 or methane (CHA) preshichelman entrapmentation meat in the ut cause almosphere There sources do Anot cause globar warming and have the ability to reverse the attend climate change. Their impostance can be summarized as follows: No risk of depletion 11- No harmful gabeaus release i.c. 000/002, CHASNOXION SOXONETC III to Noragiobalitation of the minger of an IV_ Slowed climate

is norteoud Geothermal energy: 10 montrogm the energy obtained from heat trapped under the Farth surface upon e.g. steam from underground magma and ground water heated under immensie pressure and temperature between rocks constitutes Gethermal energy. : themaniline Use: themapping are 2239 In Geothermal energy contrain be used to run turbiner and bon eventually birly produce) et oricity 0 00 directuy afrom stream portro supossible by digging wells of het water ups and using that water to produce the electricity with produce to tomils to Mention the full question statements for proper evaluation Rocks are resolids present of (6) in the Faith Stubbergand Mare

minerals ?? betoruto2 made ob ypes: three types There are a Tocks: Igneaus 102 men u 111 Melamorphic WIDIAL Rock Cycle: Rock cucleorin Vicious conversion C one rock othe 10 continuously place and 10 14 aring cruit. Farth In combine to form our sediments mous Sedimentary Kar gneou e into RUD Metamorphic hometer into

(C) Saturated vs unsaturated fats: 1000 Saturated fats are at room temperature and solids are obtained mostly from animal sources. They are relatively less healthier than unschurated flats. 99 Examples: Framples are fats from animal sources such as red meat etc. ohi safi Daidol" Automoniho Unvaturated fats: room temperature, sue obtained from plant sources and are relatively healthier?? Framples: Olive oil and sunflower oil etc. sidato (astala GENDERG

Importance of fats: are huge reserves They field calories ther energy 01 mon energy Der Q an essential form balanced Bib atthough component Of less than show alte 1) person's or diet 10 OPC ENG bytowtoinU.E fats are resulthier us they check the nulation Low dencit Unon chalesterol oprotei bad cholestad moin the bod Xalle AULOC saluble vitamins: (d)Fat c fat soluble vitamins are hydrophobic and dussolve in lats their name implies. Fats OS are essential component of balanced da providing diet they an Ih Viramins 40 the body soluble fat

Examples: Following are the lat soluble vitamins D.A. E. K etc Importance: Vitamin D is important for calcium absorption by the ent provents righters in children and osteamalacia in adults. Vitamin A is important for the health of retinal pigments in deficiency courses night Hindness. Vitamin E is an important cantilad axidant and prevents the axidative stress. It deficiency anchia. uses Vitamin K is important for Nblood dotting brand to deficience causes coaquilative duorder il hemophilia atomognos loita