3 - Februar	7 - 2024			
	PART-II SECTION-I	Keep leng	plete logic	r all p
Question	. 4			
AMSWER	A			THE STATE OF THE S
Definition The ial are		nich wa osed inor	ste mater. cler to	
	employed in	Solid	waste	
out in	ste management various steps	from	collection	
Point until	O.C.C.O.T.I.			P. C. Barrison, St.

Collection is the first step of waste management. In this step waste material is collected from various point. The waste is collected together and taken to a dumping point. Collection requires certain prevequisita inorder to work effectively, such as collection vans, workers and a well-or. ganized muncipal system. 2- Dumping and Seperation After collection of the waste mater al from various part, it is dump into a central tocation which is usually away from residential or papulous areas. After dumping, the waste materia is seperated into various categories Such as recycled products, non-sol ble products and tonic substance. The non-soluble and tonic substance is taken for further process. 3. Decomposition The tonic material is taken on furt

for decomposition. This process is carried out to awid any hazard and accident during other processes of management of non-soluble waste. Such material includes; batteries, medical equipments, erosal spraye etc. 4- Composting This is an important step for the decomposition or processing of non-soluble waste in this step the aaste malerial is placed into composting machine where decomposition of the material talks place wilt varying degree of temperature. At first, The temperature is increased to a high degree for about an hour. Then the temperature is gradually decreased upto 40°C. This cycle is repeated for few times until non-soluble waste is decomposed while producing gas in the gas collection chamber. Once the entire waste products are decomposed into a semi-solic

or liquid form for final step of solid waste management.

5- Disposal

Disposal is the final step of
The process. In this step, a
deep ditch is created in the ground
away from the city area. The ditch
is layered with protective sheets to
avoid infiltration into ground which
would disrupt the quality of under
ground water table. There after, the was
le is disposed off into this ditch-

AMINER : 4 B

Human Heart

Circulatory System

Circulatory System of human beings is composed of various interconnected elements. Every element perform its function in successfully carrying out the circulation of blood in entite body.

Human Heart Heart is the main organ of human body to pump blood through out Structure Human heart is composed of four chambers. They are as following: 1- Right Atrium 2-Right Ventricle 3- Left Afrium 4- Left Ventricle These Chambers Pass blood through bicuspid and tricuspid valves. Functioning of Heart Mechanism of heart isnulves various parts of body with major function of heart. The mechanism of a single blood circulation is carrying out in following pattern: 1- Blood from the body is collected by capillaries and veins and is taken into the right arium through pulmonary vein which is deonygenated blood. 2- From right alvium the blood is

right ventrice through bicuspid valves. 3- After right venticle blood is sent to lungs, when it gets onygenates 4-After onggenteen of blood, it is then sent back to left ventrice of heart through pulmonary artery. 5. Through tricuspid value, the blood is then passed on to left atrium 6- The onygenated blood from heart is then sent to the body throw arteries. ANSWER : 4 C Myopia and Hyperopia Myopia Myopia is a condition in which a person is anable to see distance object. It is also known as short sightedness. Mormally and individual can see begond 6 meters, but in this condition an individual is unable to see

beyond 6 meters. The vision is blurred due convergence of visual lines. When such condition arise spectacles of concave lens are used. Hypere pia Hyperopia is, also, a condition of Glurness of vision, but in this cordition the vision for near objects is blurred. This is also known as long-sightedness. In such situation, an individual can see distance objects but cannot chearly see near objects in distance of 6 meters. In this case, spectacles of conven lens can be used which converges the visual lines. Major Parts of eyes Eyes are the parts of body which allows to see things in visual range. Following are the major parts of eyes, divided into three catlegories:

1- The schlerotic layer bulging part It includes the white of pyes. It directs into Pupil cornea. 2- The Choroid layer dark the part of cornea and iris along with apil. 3- The retina Rehma part of screen where bipolar vods and cones are present cells mucous Fluid Choroid layer Rehma Scherotic layes

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ANGWER: 4 d	
Uses of following	
1- Microwaves	
Microwaves are usually used in	
appliances for Leating purposes.	
	-
2- Ultraviolet	
Ultraviolet are used in ultrasonic	
machines.	
3- X-rays	and the state of t
X - rays are used in various	
medical diagnosis machines such as	
X-rays machines, in telescopes.	and a state of the
Question: 5	
ANSWER - 5 9	
Meltods of food prescription	
Definition	
· ·	
Food preservation is a process to	

prolong the utility and usability of food items. The process involves storage of food item by vadrious methods. Organic method 1- Sun drying the food such as use trestitional ways -g drying of apricottand drying of meat. 2- Putting certain spice on the food. Pictoring is one such meltod. Using air tight containers to keep moisture away. This prevent growing of any lungers. Inorganic method 1- Use of preservatives which are Chemical products. 2. By low temperature cooking for minimum time period leaving the rest for later cooking. 3- Use of cold storage or refrigerations. which does not provide suitable tenpuature for fungus or microbial growth.

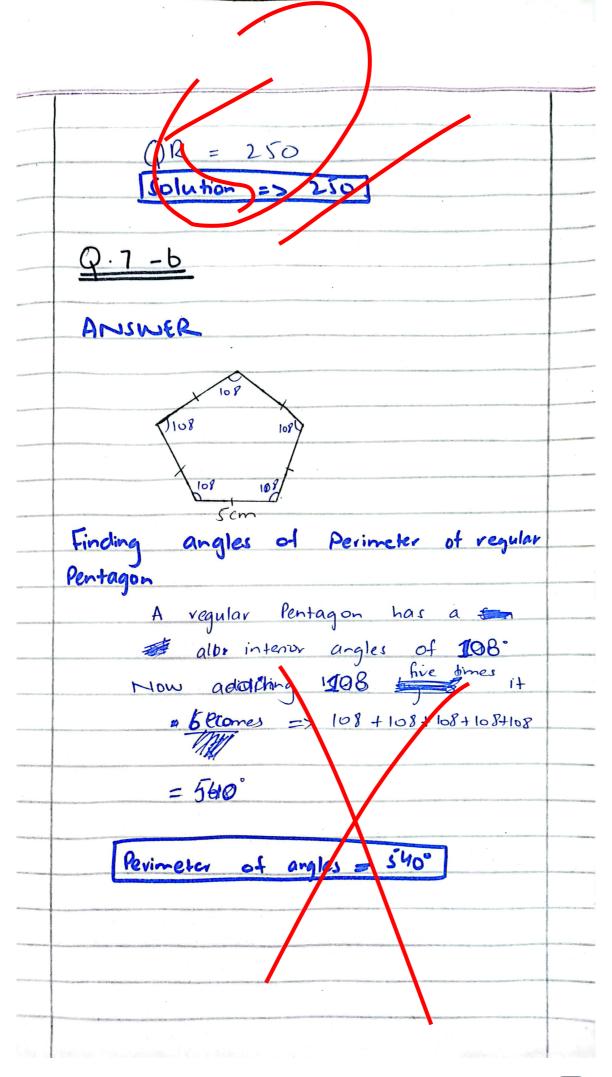
AMSWER - 5 b Milky way Definition Milkyway is a galamy in the universe. It is a spiral shape galang which appears while when viewed with the high ranged telescopes. Milikyway is the goalany in which present. in the eliptic solar earth system Dak matter relation to galanies Dark matter is a spot in the center of galanies which has a strong energy and magnetic field to attracte the galanies. This matter keeps the galanies in their respechie places Different parts of galaxies Garany is composed of various parts that storgs pt in there respethe position due to a strong central energy. These parts include:

1- Solar systems	ie, sun, moon and planet
2- Dust and ion	
3. Asterbids	
4- comets	
5. Dwarf planet.	2
_	
ANSWER: 5 C	
Solar and Lune	ar eclipses.
	Lunar Eclipse
	2- Lunar eclipse occur
occurs when moon	when Earlt comes be
comes between Sur	sun and moon
	It cast shadow on
Shadow on sun.	moon.
Shadow on sun. 2- Occurs on in	2- Occurs in fall and
shadow on sun.	moon.
Shadow on sun. 2 - Occurs on in full moon.	moon. 3- Occurs in fall and half both.
Shadow on sun. 2 - Occurs on in full myon. 3- 4 occurs wice	moon. 2- Occurs in fall and half both. 3- 1+ occurs once a
Shadow on sun. 2 - Occurs on in full moon.	moon. 3- Occurs in fall and half both.
Shadow on sun. 2 - Occurs only in full moon. 3- 14 occurs mice a year	moon. 3- Occurs in fall and half both. 3- 1+ occurs once a year.
Shadow on sun. 2 - Occurs on jin full moon. 3- H. occurs hwice a year 4- Types include; Total	moon. 2- Occurs in fall and half both. 3- 1+ occurs once a

s- figure AMSWER: 5 d Nuclear fission and fusion Nuclear Fission Muclear fission is a Chemical process in which atoms of chemical or radioactive substances breaks down resulting in emission of energy. This energy leads to activates further atoms to breek down. It is a chain reaction which closs not stop after beginning until the shenical substance fully break down for enample, in sun nuclear fission occur. Nuclear Fusion Nuclear Fusion is a chemical process in which atoms of randus chenical or radioactive substance are brought Together to react. This process initially requires energy to be corried out. It also reteases some amount of

energy. For enample, atomic emplosion occurs
as a result of nuclear fusion
Ionic bond in table salt
lonic bond
lonic bond is a chemical bond
which is formed by ions of opposi-
te charges.
table saxt
Table salt is the common salt
which is used in various ways.
It contains two elements which
have positive and negative charges.
The elements or the ions are
Sodium/ Nat and Chioride CI.
The bond they formed can be
written as;
Na++ CI- NaCI
NaCl is a stable compound which
is commonly known as Table East

Section - IT QUESTION . 7 - A AMINER 400 fast By Applying pythagorean theorem (Hypotenuse) = (base) + ('perpendicular)2 $(OP)^2 = (OP)^2 + (OQ)^2$ $(\mathcal{N})^2 = (300)^2 + (400)^2$ JN= = J (300)2 + (400)2 n = 590000 + 160000 n = 1250000 N = 500 Now that PQ is soo, we can find the value of OR by dividing 500 by 2 becase point R is right in The middle of P and Q Hence OR = 500



AMSWER



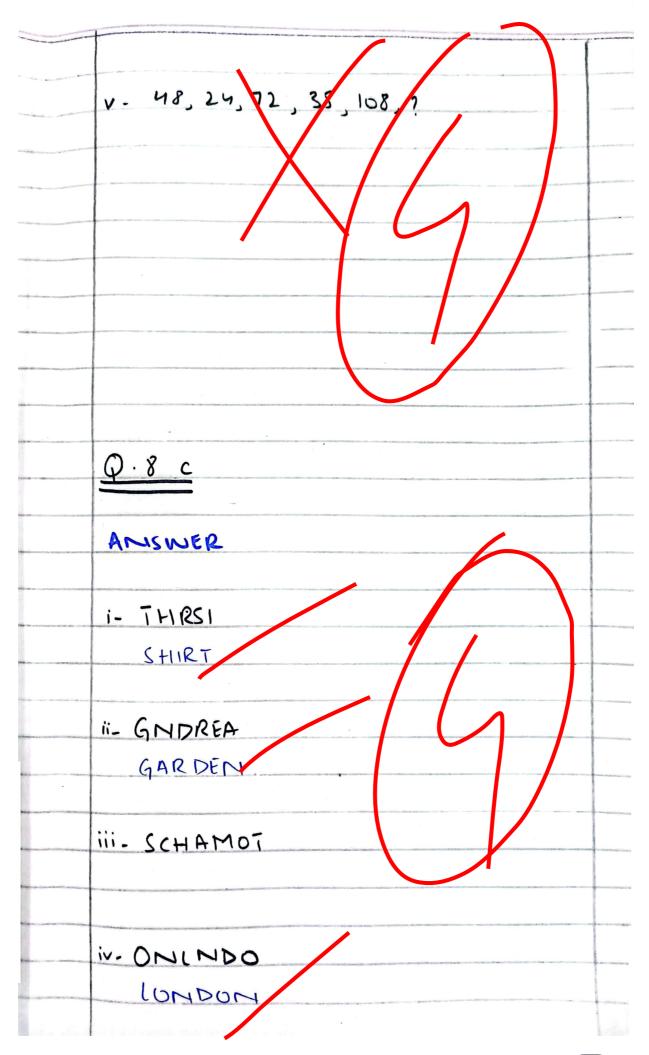
AMSWER

Age of boy 1= 3n Age of boy 2 = In Age of boy3 = 7n Mow putting in formula to find n 3n+5n+7n=1515n = 15x3 18n = 45 Putting value of n to calculate age 3n => 3(3) => 9 yrs 5(n) => 5(3) => 1545 7 (n) => 7(3) => 2/ yrs youngest bgy = 9 years QUESTION - 8 (a) AMSWER Sum of three consecutive odd number is 273 find three odd numbers.

let the numbers be = N Hence. (N)+(N+)+(N+D)=273 71+ N+1 +N+2 = 273 3x + 3 = 2733n = 273 - 33 n = 270 3n = 270 n = 90 first odd number is 90 putting value of n in second number n+1 = 90+ 1 z 91 Putting value of n in 3rd number n+2 = 90+2= 92 Therebree, 90 + 91 + 92 = 273 Three conscious and numbers are 90+91+9 =273 Are 90 and 92 odd numbers?

J.8 6 AMSWER 1- 4,16,36,64,7,144 Since every number in series is twice even number so, Ment in series number is twice the number lo. fuice number 10 = 10×10=100 series is 4, 16, 36, 64, 100, 194 11-30,29,27,7,20,15 Series is in decreasing or descendin order with stapping a number in ascerding order. The number subtracted in The missing number is 27-3 = 24 Series is 30,29,27,24,20,15 iii- 1, 7, 15, 25, ?, 51 Series of the number is made by adding even number in ascendi-

ng order starting with sin, to the answer of previous addition. The number to be added to obtain answer is 12. Now adding 12 in 25 12+15 = 37 Series is 1,7, 15, 25, 37, 51 iv, Q, 2, 6, 12, 20, 30, ? Series is increasing order of even number and adding to obtained answers ie 0+2=22+4 = 6 6+6 = 12 12+8=20 20 + 10 = 3030+12 = 42 The nent marba in series





V- HIODALY HOLIDAY Q.8 - a AMSWER Given Age of Gara = n years Sara's mother = to bu years Age of Sara's brother = 22 years
after 3 years Sum of their ages x=72 Find ages of all three Solution After 3 years ages of all Atree will be . Sara = 3+h sara's mother = 3+6n Sara's brother = 3+22 Sum of ages after 3 years = 72 2+3 + 3+6n + 3+2n = 12 9n + 9 = 729n = 72-99n = 63 9x= 63 =77

Sara age = 7 Mother age at present = 5-16 Brother's age Hence, Sara age = 7 Mother's age = 42 Brother's age = 14