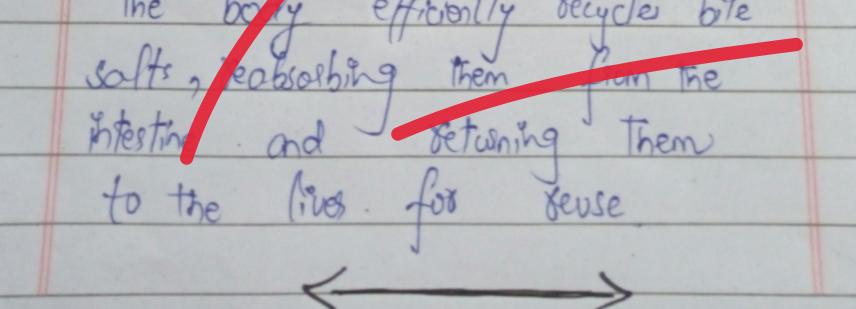
Dos and Don'ts for Generaral Science & Ability Paper Hi there, you've done well. Know · Likaia that acquiring knowledge is one thing and reproducing it in pape acccording to what's asked is another. There are a tow things 69 ould like to highlight. 1. A 5 marks part requires at least 2 and at max 3 sides of a paper. Know that there can be two or three parts of a question and their marks are divided accordingly. three parte So, address all of them in a just manner. 2. Focus on t ne managen You get 35 minutes to solve the question about 8 minutes 5 mark part. Manage your time accordingly. Hin' 3. You need to understand that our paper is supposed to look more scientific than theoretical. So, add flowsharts and diagram where required. 10-4. Your handwriting and neathers in can be really impactful. Avoid the Juna Cost cutting and overwriting. 5. Focus on your spellings and body OH your grammar. Here, in GSA there's no deduction in marks but your expression will definitely create an impact. ~2M The Wates 5/000e 6. In ability portion, give explanation for analytical ability question in words. You need to understand that a 5 mark part requires all steps written and explained. Good luck for CSS 2025. You're gonna rock in sha Allah. :)

Drimply function of Bile: 2. The primary function of bile is to emulsify fats, bleaking Them down into smaller deoplets that Can be more easily digested by enzymes Beyond aiding fat digestion, bile also helps to eliminate waste ploducts, regulates PH in the intestines and focilitates the absorption of at-Soluble vitamins like vitamin A, vitamin D, witamin E and vitamin K Overall bile ensures efficient objection and nutrient absorption, focus its critical role in maintaining digestive health.

- Vives MON THE WED THE FRI EAT Date: /__/20_ Coronary Ligment (Right Lobe) falc:foom Lignentum Gall 5 Paddes Key Points of Bile: I. Production and storage: Bile is produced by Gres Cell and Stored in the gall bladdes intill needed for digertion the cuse for all 13/10 15 diseases of the fives, but the liver itself is the cuse for bile (Grafileo Galilei)

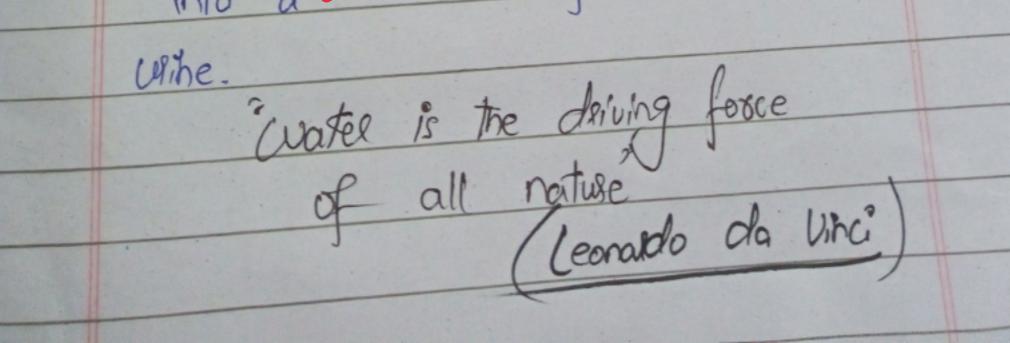
4/ MON THE WED THIS FRE BAT Date:___/__/20____ 0000002. Digestive function: Bile helps in the digestion and absorption of fats in the small intestine by breaking clown large fat molecules into Smallel ones 3. Waste Elimination: Bile helps semore waste products, including bilisopin, a by peoduct of sed blood cell bleakdown, from the Gody. 4. PH Balance It neutralizes Strach acid entering the small infestille, cleating an aptimal environment for digestive enzymes to fition. Kecycling 5. The boyy efficiently decycles bile



Date:__/__/20___ MON TUE WED THS FRI SAT Chestion: 4, (b) Describe sole of kidney in excetion Role of kidney in Excretion: the kidney play a crucial role in excetion, which is the process of semaning metabolic wastes and excess Substances from the body the Kidneys are vital organs involved in the filteration of blood, segulation of water and electrolyte balance, nominienance of acid-base brance and excretion of Usine they are also helping to Keep the internal environment of The body stable and healthy.

MON THE WEST THE FRE EAT Date:___/__/20_ Renal vert Aorta Rena ARTER =7 (kna Cava) Adkena Caro Kidney Bladder Useter > URettiger Excretory System Points of Kidney Key in Exdetion these are following main key Points of Kidney in Excretion System are as: Filtration Process : Blood enters the Kelneys Through the tenal where Inside the kolney; millions of they structures called nephross filter the blood.

Data:_____/____ They Semore waste peoducts such as usea, excess salts and water flom the bloodstream. formation of Usine: 2. The filtrate Collected by the Dephrons Passes though a series of tubules where essential Substances like glucose, amino acid and some salts are reabsorbed back into the bloodstream. 3. Regulation of water ord Electrolytes: The Kidneys munitain the body's water balance and electrolyte Pevel by adjusting the mount of water and tors deadboorbed into a excerted from the



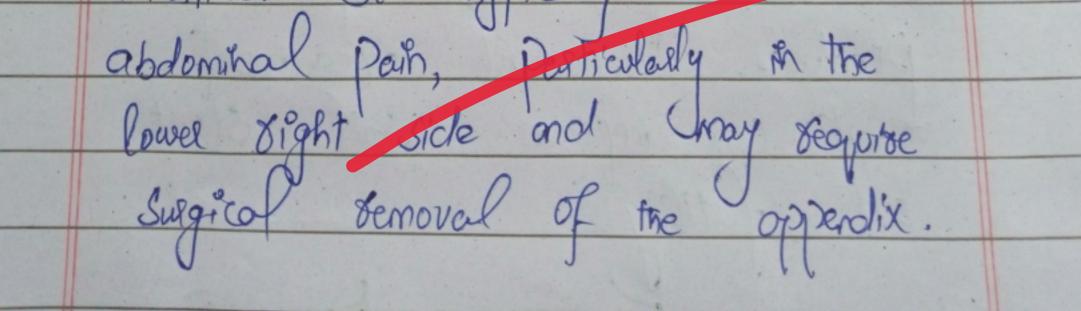
MON THE WED THE FRE BAT Date: /___/20____ Add diagrams 4. Acid-Base Balance: Kidneys help segulate the PH blance of blood by excerting hydrogen ions and taborbing bicarborate rons, Thereby maintaining the body's acid-base balance 5. Excletion of Uline: Usine, Consisting of water, usea and other waste products collect in the senal pervis and is then transported to the bladder through the usefess from the blacker Usine is eventually exceeted from Rethra heorigh

MON THE WED THE FRI BAT Date:__/__/20____ Overtion: 4; : (C) Discuss the different methods of Solid Waste Monagement? Bolich waste Maragement Solid waste monagement refers to the systemicatic Control of the generation, collection, treatment, disposal and monitoring of solid waste materials to minimize Their environmental impact while promoting Sesource Secovery and sustatiobility "The greatest threat to our planet is the belief that someone else will Save if (Robert Swon) Methods of Solid Waste Management monagement involves anste Solid methods to hardle and Vasious of waste effectively. dipose

Data:_________ (10) Meter ale free Common approaches. 1. Londfill : This is the most traditional method. where waste is deposited into designated (alea) ladfille liked with protective barriers to prevent environmenta Contamination Modern landfills one engineered to minimize methone emissions and geoundwates Pollution. 2. Incineration : Waste incesation involves burning Solid waste at high templetuses to convert into gases and beat Energy Secovely from inceral be harnelse o generate industri electricity 09 Plocess

HON TUR WED THE FRE SAT _/__/20___ Date:_ Recycling : 3. Reycling involves Sorting end wate materia Processing poper, glass, metals cr Plastics to produce new products It reduces the amount of more Sent to lord fills and Conserves natival To oulces. Waster is a desousce in the worg place" Sue Block Compositing: lolog ice Compositing is the l'asgonie avaste decomposition of food Scrops, materials such as and yasd wast into nutrients Corpost. hie rocess Xieh. a soil omendment Deoduce Stuctule my Hove Con estity

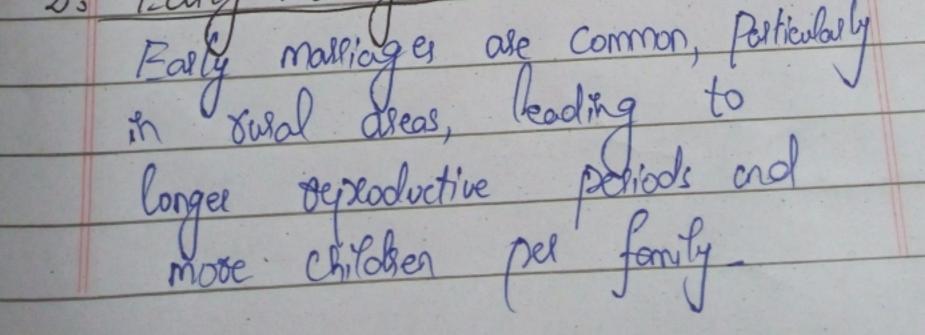
MON THE WED THE FRE BAT Date:__/__/20___ (12) d Define the terms: i- Anaemia ; Ansemia is a medical Condition Characterized by a deficiency of sed blood cells or hemoglobin in the blood, leading to seduced oxygen tenspost to the body's tissues. Common symptons include ci. fatique, b. weakness C. Shootness of bleath. ii. Appendicits : Appendicits is the inflamation of the appendix, a small finger like puch attracted to the large intertine. It typically Cause Sweete



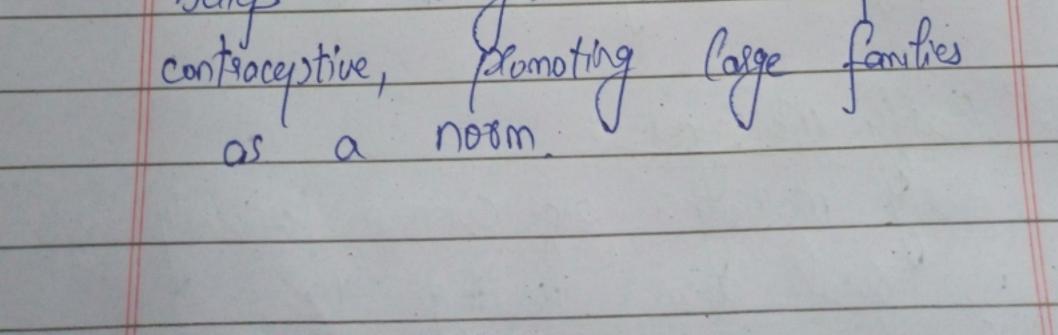
MON TUE WED THS FRI SAT Date: __/__/20___ (13) 000000ñ.-Spleen : The Spleen is on olgan located in the upper left past of the abdomen. It plays multiple voles in the body, including filting blood, Stooring ald sed blood cells, Stooring white blood cells, and platelets, helping find certains kinds of booteria in Myopia: Add diagrams and explain Myopia, properly Common vision Condition where close objects appear clear but distinct object de bluery. It ocurs when the evolut is too long or the corner is too curved Causing light to focus in front of the setting instead of on it.

ICH TUR WED THE PER Date:_____/20____ (___/4) v. Isotones : Isotones ale atoms of different chemical elements that have the Same number of neutrons but different number of proton For example: Carbon - 14 md nitegen-15 ale isotones béause both have 7 neutrops.

Data:_____/20___ (15) Question: 5, Cl: (a) Pakiston is the fifth most populous country of the woold what are the causes of population explosion in Pakistan. What can be the control measures? Causes of Population Exploision in Pokiston: Migh Bists Rate : 1. Cultural and Societal norms in Pakiston often four large fomilies Lack of awareness and mess family planing also contribute to a high buth sate. · Pakiston has a bisth sate of about 27.5 bisths per 2000 people, which is higher than global average of 18.5 births Early Marriages: 2.



MON THE WED THE FRI BAT Date:__/__/20___ According to UNICEF, asound 21 % of gible th Pakistan ale massie al before The age of 18". 3. Low Education level: lower level of education, especially morg women, cooselate with high bist vates, Educated individual tends to have fewer children « The contraceptive plevolence Vate in Pakistan is almost 340 which is loves that oncing often developing contries." 4. Religious and Cultural Beliefs: Some seligious and cultural discourages the use behefs



Date: _/_/20._ (17/ 000000 Control Measures of Population Explosion in Parkistan ; 1. Education and Awakeness: To rhosease educational opportunities, Pasticularly for women and raise awaseness about the benefits of small formily norms and family planning 2. Mealth Cale Improvement: Improve materal and child healthcase Services to reduce infant morbility states, as higher child survival outer often cooselate with loves bisth Vates 3 involvement of Religious lendes To engage is seligious leaders Communifies on the of firsty planing and selateo myths contraception. disi

18, Date:___/__/20. Women's Empowerment: women Through educate, Empowes sights to make informed ors about their replacetive employment legal decisions health. «A D omen with a voice is, by definition, a strong woman" (Melinda Gates)

OOOOOO Data:____/__/20___ (19) Cluestion: 5 between Cyclones Q: (b) D'ifferentiate which cyclones chd Tornadoes, in 2024 was observed Différence Between Giclones. Ond Totradeoes Cyclones: Cyclones are the targe-scale masses that sotate abound a strong center of low atmospheric Dessure They occur in the form of hussicones, typhones as simply cyclones, depending on these location It typically spon 200's of kilometers in chameter Gabres en form over warm ocean waters in tropical regions, dising no with warm, moist air Causing Cow Plessure aleas

MON THE WED THE FRE BAT Date:___1___120___(20) have systemed wind Cyclones Jonging from 74 mph (for a to over 157mph 1 hussicane) Category Cotegoey 5 huseicones) for a lolnadoes violent windstooms Tognadoes ale small rotating Columb/ Chasacterized by a extends Column of a's That to the good. from a thurdestoon in Scale, It much Smalled kilome the Usually less Than width lasmables cen form over ba, typically during Severe Draw & line armake proper differences warm, moist air meets Cold dry air Tornadoes what speed con-exceed in the most severe cases 300 mysh tophodoes

MON THE WED THE FRI SAT Date: __/__/20___ (21) 000000 Cyclone Observed in 2024: In 2024, one of the significant cyclones observed was Cyclone Biparjoy This cyclone imported Segion in the Arabian Sea, offerting Patts of Irdia and Pakistan Bipaejoy could heavy toinfall, Strong winds and significant Coastal flooding in the affected alogs Question: 5 d: d Define the following terms: i- Hypocentel : The hypocentel is the point within the Earth where an earthquake repture Starts also known as the focus, It is located beneath the Batth Selface

Data:_______ (22,) Epicentes : 11-The epicter is the part on the Easth's surface directly above the hypocentes of an easting voke It is the Cocotion where the easthquake is felt mostly stongly iii - Eye wall of Huericone: eye wall of a hubicane sing of intense Thurdesstorms is the Sullounding the calm eye, Chasaeterized by the strongest what and housest saint of - the Storm. Add 19 praise subheadings Shallow in oeus ; Shallows four defer to easthquakes depth of That occus or a less Than 10 Rit benests the easth Surface These caltiqueres tend to cause more damage compared to depper unes

NOTE THE WED Data:________ (23) Passee : A passer is a unit of distance used in astronomy, equivalent to appeartmately 3.26 light years 0° 3.086 × 10 13 Kilometers_ It is the distance at which one asternal unit subtads ongle of one all seens

(24) MON THE WED THIS FRI SAT Date:___/___/20____ SECTION-I, abertion 7: Find the volume of a cylinder with Tadius 30 cm and d: height Im Solution To find the volume of a grandes, we can use the formula V= Troch Whele. V= volume of the cylindes 8 = . Jackies of the fic the cylind h = height of the cylindes. N= 3.14 Given Rodius &= 30 cm Height= h = 1 m = Loven Now, Substitute the given values into the formu $V = \pi (30 \text{ cm})^2 \times 100 \text{ cm}$ $V = \pi \times 900 \text{ m}^2 (100 \text{ cm})$ V= T x 90000 cm3.

V= T × 90000 cm3 V= 3.14 × 90000 cm3 U= 282743 cm3 Overtion: 7 D: (b) The average age of three boys is is years If their ages are in the ratio 3:537 what is the age of youngest boy? Solution ; To find the age of yangest boy, we first need to determine the total age of the Three boys; using their Sotio Given: The average age of three boys is 15 years there ages are in the safio 3:5:7 Let the ages of boys be 3x, 5x and 7x.

Data:_____/__/20____(26/) Since The average age is is years $3x + 5x + 7x = 15^{\circ}$ 15a = 15 52 = 15 $X = -15^{-1}$ x 3 Now Substitute x back this the open to find the actual ages of the youngest boy = Age = 3x = 3(3) + 9 Yeals

MON THE WED THE PSE BAT 00000 Date:___1___120___ (27/) Overtion: 7 O: 10 Identify the Series i- 8, 19, 52, 151, 447, 296. Lock of clear mathematical pottern without a depite pattern in the given series, it is challenging to predict the next number in the series occurately 11, 13, 17, 19, 23 29 This Series Contain Dame it ascending order

Date: __1___120____ (28) MON THE WED THE FRI BAT Overtion: 8; Cl: (c) What will be the surface alea and volume of a sphere if it has sochios of 7m? Solution ; To find the Sulface alea A and volume V of a sphere with radius D= 7 meters, we use the formula Sulface Alea (A) A= 4182 Now, putting the Youlve of 8. A= 417 (7)2 A = 4(3.14) (49) A= 1967 squale meters Volume (V): 2 = 4 583 Now, putting the colve of 8 V= 4-7 (7)³ V=. 4 Tx 342

120 Data:___/_ V= 3 Ax 343 V= 1372 7 cubic meter V= 457-3377 cubic meters Therefore, The Surface area A is [1967 greteres The volume V is apploximately 457.331 abic meters

Data:_______ (30) Cluestion: 8 (Ps (d) Distribute Rs 4320 ang Zain, Aslan and Ashrof it such a way that if zach gets I pasts then Aslan gets three Pasts, whereas Ashrof gets Seven perti-Solution : To distribution Rs: 4300 among Zain, Aslam, and Ashrof in the ratio Where 20th gets 2 parts Aslam gets 3 parts and Ashrof get 7 parts 1st we followlate the number of total pasts: 2+3+7= 12. Now, we distribute Rs: 4300 in proposition in these pasts. 1. Amount for Zar = 2 x 4320 720Rs 8640 2x43 12

MON THE WED THE FRI BAT 31 Date:___/__/20___ Amount for Aslom = 3_x4320 2. 12960 = 3x 4320 12 12 08 Rs x 4320 Ab Amount for 3. 12 30240 7×43 12 2520 verify: To 720 + 1080 + 2520 4320