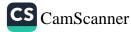
GSA - 2024 (Past Papers) OB-54 Self-mack exam-Amman Yasir 9-12/24 Part-I (MCQs) Q1 C 2-B 3-D 4-A 5-(B 7-0 8-B 9-C 10-0 11_ B 12-A 13 - C 14- 8 15-D 14- (17- C 18-0 20



Date: Carbohydrates and Vitamins are essential nationt required by a living body. Carbohydrates are q Q <u>required</u> if a very whereas Vitanins in <u>Source</u> of energy in general. Whereas Vitanins in <u>Various bruns</u>, have a diverse range of bodily 9) Function. Deficiency of these minerals leads to malnutribin, which could cause serious healty problems. Role of Carbohydrates in the body Provides energy to the body: Carbohydrates are essential source of energy for the body. It contains 0.49 unit of energy. The body requires it to function. Every organ system requires energy to function mechively. For example muscles require energy in order to physically perform a task. Such energy is produced through devotic respiration in cells in which Carbohydrates are Stokan down. Stoved as hyrogen Carbohydrates, when digested is broken down for intertinal alsouption. After being ultilised the unused molecules are converted into Glycogen by Insulingin the liver. It is converted buy to simply forms he bodily fundian when required. Hence, if acts as a storage/inventory.



Date:_ Hells improve digestion Carbohydrates in complex form of store cellulose is Carbony malerial. It in unligestable but helps in digestion process by avoiding issues like constipation. Role of Vitamins in the body Vitanin A: They are also known as retenoid which aids in providing heading vision and prevents Might Slindners. Vitanin B1. They are hnown as Thymine which improve neure functions of the body Vitamin B3: They are known as Niachin which helps in metabolism and acts as antioxidal. Vilanin B7: They ad are also known as Biotin which adds in growth of nail and hair. Culi calcipheral Vilanin R. D: The are also known as Arabitic and which regulates Calcium in yones. Vitamin E: They are important anon a dants that reduce the aging process. Vitamink: They are essential the immune system dothing and production of RBCS



Date:_ Liver and Panaveas are essential parts of Lody. 6) They are situated dose to each other with various essential functions, such as blood cleaning and secretion of anzyme, for digestive system. Functions of Liver compovents: Filters the blood from unecress and Liver , like kidney, help in fillering blood from and excers. I example it removes the waste dead RBCs by heating them down. It provides a yellowish colour which the sile secrete during degestion to be excreted lateronwords. Stores glucore: Insulin a hormone that interacts secuctes Liver and convert it into Glycogey. with glucose Hence, Glycogeni Stor in liver. When the bod Lach Enlucose, The liver connect filycagen needs in usable form wed to cellular achythes Function of Runcvery these in more detail retes 1zyme iduring digestion. e process of digestion, Pancreas essential enzymes to break down Sevetes complex tood molecules into rimplec tovay to be absorbed into the body. Panarealic Amplase breaks start into simpler units while Paurevealing Lipcure helps in breaking This Glycevides. URBANE PAPER PRODUCT

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Date; Drinking water is essential for human Lody with Drinking I hodig's composition in the form of water, wer water stundards must be strictly implemented he water should be neither too alkaling implemented. A water should be neither too alkaling nor too addi. A wood provide complications in process like as it have vesult in heart build. Moreover, it should have all the essential minerals needed by the body in optimum amount. Excers leaded in winewals like Zine would provide body with various issues. A small quantity of Zinc is estertial for neure functions. Dinking water must be boiled and cooled down belare driveling to kill havenful microorganismis. People in could get intected with diseases like Undera and Diacohea if the water is not boiled properly. Drinking water should be inspected by headth inspectors to determine the quality of water I rate its results on the healthy beachmarks. Heavy retails in Warter He mitches in water, such as a sindering per sintred ship caches ruf in water which produces such. As mentioned previously rhining body needs q small amount of Zinc. Excess could prove Fatal to the body. Some dremicale from metal liphete Oxygen that reduce Oxygen availishit URBANE PAPER PRODUCT



Date. for ting organisms under water. d) Defination of Radioactivity He emission of vadication when te process of fission and or furior occurs. The vadio adrive waste red emist radiation until if attains the point of stability laws of Radio achivity Radioactivity, in writable form, tends to stability overlime a asit emity regain its radiation. They are produced in the form & Beta, Gamma and Allpha radiation. Alpha radiation can be easily stopped hit it has can travel large distance. Beta radiation abject, is relatively difficult to stop and travely cree han Alpha radionen. Gamma rays travel less het would werd thick amount of leady prevent its penetration Radiadivite elements include Uvarium and Plutonium. A 5 marks answer should be on 2 sides of a page approx. Add more detail **CS** CamScanner

Attempt and upload a single qs at a time for evaluation. Date: ave known as producers of food in the plant Bod chain. They require various nutrition essential to survive and grow. elements Starch: Starch, a stormed form of Carbohydrack, when plant vequire, glucon for used collular achilithes Cellulose: Cellulose is used to provide cell i, a 'sheletal' structure plant are used in the production of Fut Fats: all men bevare Protien: Protiens are used in DNA synthesis ad protion formation to ravious functions water: Plant cells contain Unlarophyll tat use sunlight to break Hydrogen welease from Dxygen molecule. It weaks every wed in various collular activities. Jer_ b) Difference between Software and hand ware Software Hand wave 1-Does not have 1 - Have physical proper-Physical properties fiel 2. Are in the towns 2. Are in the form of URBANE PAPER PRODUCT



Havelware hand elements that can Software Apps, Web browers and 6 he touched as well. Operating System 3- Operate through their 3- Operates through physical properties coding system Example; Examples 1- Google Chrome 1- thouse 2- Heyboard 2- Facebook 3- Mother boar () 3- Microsof Word 4- SSP Slack 4-5- HOD \langle Zoom Earthquate is the process of shaking involving C) a result of movement by lithosphere as techtonic plate. Energy is released due to stress causes the earth to shatke. There any various types of earthquakes. The first type of wares are its morement upand down as shown in the Kyuce. down The lithosphere jolds up and down as a result Trichin between the techtronic plates. IL din hypocenter and spread nall directions. Al the distance increases, the movement of shaking ypaid down subscides.

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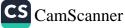
Date: left Righy The next type is it's morement side wanes from The new U. The morement of the textonic its cricer right and left before it subside with distance. 2,5t2,5th The third type is its morement. Luch and faith. The techtomic plates provides forward and subsequent shocks ha specific place. This could be fatal and could result it loss of the and infracturelune. d) longitudual waves cows longitudical waves are movement of in the form of wares that rise and fall. It varies in hequency and wavelength. An example of longitud nech waves are intraved waves. Electromycynetic waves radition Electromagnetic raditions are largitudual war is formed through novement of radiation emitted from radiating body. It contain various URBANE PAPER PRODUCT



Date: with varying frequency and types of verdicition wave length duch as Ultraviolet radiation, rulis Water and mice owaver. Gamma rudiation Gammy rudicition are emitted from radio active cutstances. It has high pentrating properties that could penetrate human skin and increase change of cancer and mutation. However, it travels at lerve distance. A thick heard would be all to stop it from peretruting. Section-B 9(k) a +/5 +/c+/d = 108 =3/11×75 \$ 1/= 42 Q٦ 0) M' KIN Figure 2-N Yky ,61cm Skin Phytha groups Thearen ()Hypotneux = Base + Height $\int 2 = 4^2 + 4^2$ 2× 16 =1 H=3 9=42 y= 32



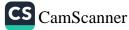
Date:_ pythaquours Theorem (2) $\chi^2 = q^2 + 8^2$ Height 2 3+6 2 = 81 + 64 = 9 12- 145 n= 12.04km Total distance (overed = 3+6+8 = 17km Distance from starting point = 12.04km Hence, the man initially took 3 km until he went further six Kilometers, and then he took goo two and travelled 8km. Herrantly This makes his total distance travelled as Then. Through Figure 1, we were able to adalate and visualise the base on I beight from his initial point. Phythagorus The orun was applied to calculate his distance for initial point which is Diogram. let H be Huran $\frac{H}{2} = \frac{1}{2}(AI) - (I)$ 1 Al be Ali 1 Al be Aklaw AL = SAK -(2) " N be Nasiv AX=3N-(3) "S be Shahbaz S=N-(4) Total=8000 + Sutstituting Multiply formyday afar, to fix of th COOD= 2+14+ NA+ JA+ JA+ JA+ ... LS(3/10) URBANE PAPER PRODUCT



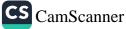
Date:_ Matting I the variable in each formely Hz (2)(2) AI = 5 (3S)All = 35 Nz S + 35 + 5 = 8000 1 × (×35 + 5(35) 55+155+35+5=8000 245 =8000 S=333.3Rs 2000-5=8000 1000 N=333.3 Ps AN= 1000 B A1 = Jow Rs Ahz 1000 3 H = 1666.6 Rs Z A1 = 1000 × 5 +12 5000 3 Volume of Sphere = 4 I13 +22 +1 +++ C) = 821.c SA & Sphere = YII2 = 4 x22 x 7x7 =616 Zain: Aslany: Ashvaf d :7 3 Ratio method



Date:_ Portion of n x Total amount = Amount districted Total portion to N 36.0 2 Zain's * 4320 2 = 720 Rs amount 12 ×432, 3 22 Aslam's 2 = 1080 Rs Amout 360 Ashval's 2 = 2520Rs XY 320 2 Amourt Q8-Prolit = 1 × loo 2) =25-1. Selling Price = 2400,000 Rs SellingSuia * = 100 + 21 Ratio Method =125.1. Prolit felling Price 21 125 ·]. amount X 2400000 12(N = 2400000 x28 480000 N=480000 (Prolit N2 240000 x251 125 Ot 2 Sellipsy Price - Profit ۲ = 2400000 - 480000 =1920000 ((0H) URBANE PAPER PRODUCT



Date:_ . Job Demen 6 Days rren 1 24 5 20 ς. yperis yday ×21 Then Ydy & wuch = 1 2 2> 12 Jone Job/Jone Y du XX XX 1 1 Remain χ 6 SN2 48 N2 48 =9.6 duy Tree C lom 20m 2) (602m/ A Sokn/4 lookm/h B 6 3 7 Figure A den URBANE PAPER PRODUCT -



Date:_ i) Distance between A and B = DA+DB = TASA+SBTB + Speed = Distance = 15 x 66 + 15 x 100 60 31600 = 15 +25 = Yokm Distance of Chan starky port = Scxte = 8 x + 15 = 20 km Usig Pythagorus Theorem as a higure A Hy= 82++1 Hy= 202+2 - MOORYO Distance Rown Slos Can & # = -800. $Hy^{2} = B^{2} + H^{2}(Bard(jii)) + Hy^{2} = B^{2} + H^{2}(Aard(jii)) + Hy^{2} = B^{2} + H^{2}(Bard(jii)) + Hy^{2} + H^{2}(Bard(jii)) + Hy^{2} + Hy^{2} + H^{2}(Bard(jii)) + Hy^{2} + Hy^{2} + Hy^{2} + H^{2}(Bard(jii)) + Hy^{2} + Hy^{2}$ = 6287400 =225+400 = \$25 = 1025 =25 hu 1= 11025 hus URBANE PAPER PRODUCT

