**General Instructions**  $\frac{\text{General Instructions}}{\text{General Instructions}} \qquad \qquad \underline{\text{Section} - II} \\ 1 \text{ Give numbering to headings} \\ \text{NO} = \frac{1}{4} \cdot \frac{1}{6} \cdot \frac{1}$ 6 2 Do not write lengthy paragr medium sized paragraphs with headings 3 Do not use table to comparison and Formula contrast questions. Draw figures/diagram/flowchart where eeded. Arthmetic mean = needed. 5. Start new question from fresh page. 6. Write unit of the answer in ability section. 7 Observation observation Explain mathematical steps and the reasoning for bétter spore Numbers # 2, 3, 5, 7, 11 8. Change colour scheme for references to give them more visibility.  $(2)^{3} + (3)^{3} + (5)^{3} + (7)^{3} + (1)^{3}$ 9. Manage time w@m = 0. Wide page borders are discouraged. 5 Should be reasonable. 11. Avoid writing wrong references 7 + 125 + 343 + 133112. Give more weightage to expressedly asked part/s of the question. 1834 Am =AM = 366.8 Avithmetic numbers with their mean the cubes = DIME 366.8 16. 4

QNO#8(C) Solution : 6km 5Km lokm 3km ykm Apply Pathygorus theorem  $(BC)^{2} = (AB)^{2} + (AC)^{2}$ (BC) = (3/cm) + 5/cm) BC = 94m + 25lem 13C = V341Km BC = 5.801mm He is in North direction from starting point with a distance of [5.80 km]

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QNO# 8(9) Solution : Property left = 1,750,000 Debt = 150,000 Property distribute between a son and. = 77 daughter property = 1,750,000 - 1500 Remaining is double of daughter: Now, share of 160,000 533,333.33 Daughter get 1 533,333,33/1, Son  $=_{Rs} 1,066,666.66 | 1$ gets

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QNO#8(c) Solution : Days Work men 1 20 km 50 50, 50 20 26 - X 70 40  $\chi = \frac{50}{70} \times \frac{40}{70} \times \frac{10}{70} \times$ x = 28.57 days Thus days require to complete Same piece of work by 70 men in 28.57 days

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Date QNO # Of (a) Solution: 1 Suppose original/lest price of item is x Now Net Price lost Price + 1. Increase im Lost Price 80 x+ 20 a) 100 80 1.2.20 X 66.66 x Price Was Rs: 66.66 Otoginal Con SKO#A (5) n Colution : BROIHER = QDGSNQA Explain in the detail preceding number backward So, SISTER is written as SISTER = GDSRNR Gracy

Date QN0#07[C Calene I tiangle : whose A sides triang lengths. are pesent al A tiangle : *ii* guisteral whose three triangle Same length. the all Siles ale What about angles? B A 1sos eles triangle A which il 111 at the Same time ht and triangle it a friangle its three sides the sam Same with Isosieles Right triangle that 1 Hangle Isosteles an However consists right G Legs. egicual length two O Gracy Gracy

Date QN0 # 07 Solution : Total Slice # 8 aisin containing slice # 03 50 bilet Dicking Still aisin and the ormula • 1. 12 IN WIN

Date Section-I QNO # 04(6) -Main Goals COP \$7 PKT Was m hela year Vasiely with az under discussion. brought dispate 1555, hickede finsmia, miligation and ion, inspeins ada agenda al 077 climate under the mais rustile Tain 227 moludes 400/s 01 mto divided 027 Vilion Was endae V Adaptation gation Mitegation : COP27 Was agreed M remains aris Hareem that backstia ack no GY intal 1 Commo ts Veox71 too al strengthon & despl Ce -Pg headwind 9/060 Gracy

Date and sustained reductions in g greenhouse gases (GHGs) emissions Holaptation: two COPS- COP26 last and Cop37 - Worked Digramme the on global adaptation Dtogresse with a conclusion in Cop 28. Den mance: In financial agreements, a "Is for multilateral development anks (MDB) and international "nencial institutions to storm Calls antes cono Valtices DHIGHIHises ensure Simpl oucess to inea dimate insnle. Loss Oma amage und: Countras greed to establish histor and Palaistan damage fund. Dlayed Coucian a role m develo this. fund. developing countries well support are that vulnexable to The climate expects change. 07 Gracy

Date QN0#04 Halificial Intelligence Fundamentals the Dotentia creatin lives human Case lives meaning orthe more devoia labour. Hard tundamentals 07 Astericia Works AI m Irrelevant answer Neuroy Which Networks IA Haman Similar to cells Neural Ne the 64 m potterns (Specer Images 07 viscia Functions Invo/ves transferting the capabilities Some traditionally associate Which with humans to brachine m These satisfactory mannes. These man capabilities currently include uman deuson-making Nis speech recognition, visual perception naterial langu communication Holessing and Examples VHL: Assistants such as Sigi Personal google Assistant and Amazon Alexa. Social media m 111- Autonomous vehicles. - Gracy

Date QNO # S in Envitonmenta Science Geographic ton computer Storing Check GDULLY data on CRITH. collecting methods 108 mao Environmental Science es m main ale Following environmenta uses Science: chang Climate Use. m 1-14.20 JUTPOSE mi Use 400 control pollution Use 108 111management disaster 408 INlse process Conservation V-Usc 408 - topecasting weather and 9 weather pattern. Use VIanalysing

Date ONO # 04(a) Causes of Land Pollution: Land Polletion: in the Land pollution is also contamination, 08 mown Gil d degradation which soil is land Caused by the presence xenobiotic chemicals of other alteration the natural Soil Environment. m Maps Causes of Land Palletion i- Deposestation: It is a leading lause land pollutions ening in a deportest-tions à 98 1 . happening rester PALE the access woold Solld Waste (MEW) II- Munipal It includes non-hazardous garbage, rubbish, and trash from homes, institutions, and industrial facilities M- Clibanisation and Construction: 10 auomodate aus musessing

111100 NUU ma Se population construction a also ouits which resul large waste materials, Si activities in rge Waste Sull as and bricks: IN-Pesticides and testilizes : Mysiad studes ang restelings aused Ser 98 contain lavac. mount 9 Howic Chemicals. 07 Doisons Which cilou assects roperfies Sewage Treatment: Vmateria legt over the Soll is Sent waste site to The and the environme Gracy ends up polluting

Date QN0 # 05 ( d Pituatasy Functions of ands: Fland CS a group which . Selvete speciel Cells chemicals ands Calleg Hormones. Glands: )es G 2 Endoctine xourine Series Glonds Glands 1.5 iluifax c Gland tuf Glands: Pitaitary gloma Very cs equal the Small 40 817E cz It is also Imown moster 95 glands it regulates and all lands. oresent other in the body. Piluitasy Which Lobes iland its unctions: major three It ha lobes ? Anterior, Median and Dostetior. Gracy

Date 11. Anterior Labe: The presence SIH WS 9 glowth glands ms pitulaty. Der. the body m TSH acto m 0 regulates adden AUTH gland 50 2. Median Lobe: MSH peroduces melanin and determines Skin colour. Posterior Lobe: Oxytoin is Used dusing baby Dastuili 08 Dove 8 maintains water leve ADH •. 7.1 Sel It and and a second Sel. N. S.

QN0 # 05(5) Digestive System and dole of Small interfine in digestion? Digestive System: The large and complex food particules commot enter into the cells without brokken down by our bady into smaller simpler and deffusible form. This process of breaking down food into simple and diggissible molecule is called degestion - However this whole process in food which symple is colled digestive system. Role of Small Intestine in Digestion Small intestine is a long tube of six meter where digestion Detripolitising. Diagram missing. At the end of the small intestine the digested soluble and diggussible components of food now diggussible components of food now diggusse through the walls of the small intestine into the blood Stem ULL

QN0 # 05(C) Vitamins are natural Service Services Substance found in Atomson food that is an essential part of what humans and animals eat to help them grow and stay healthy. ypes of Vitamins: ri 2 1. a.s. Mater Solubly Fat Soluble Fate Soluble : These are the vitamins Which are dissolved in fat the human which is present in human body. They are: A, D, E, K. Water Soluble: The vitemins which are dissolved in water. They include B, C vitemins.