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Envisonment & Envigy / Geograph / Economics Environment & Energy (SES+SSC) Overall Syllabus > Jheography 8 2) Envisonment & Energy 8] History 4] Polity 5] Economics 6] Current affairs 2 General Science Decode the syllabus 87-6K Apprach/Strategy: > PVQ + &yllabus -> correlated the topics with Pya Study Materials - class notes → printed materials 622 Current offairs \bigcirc 6 Subject > Environment & Energy Syllabus > (1) Basics of environment 3-conventional 83 current (2) Biodiversity 3 → conventional ٢ (3) Environmental Pollution & Environmental Degradation (] (4) Climate change & global wasming 3-current 3 (5) Environmental treaty, convention & protocols g-1 warent ((6) International Environmental Conferences 3-1 convention of 9 (7) Ozone & Ozone holes & related aspects 3-current ۲ (8) Environmental Impact Assessment (EIA) - conventional (B) Energy -> conventional (9)(83) 273

Nature Conventional Current Subject > breography Lyllabus - (i) Basics of breography (ii) Indian geography (Most important) (iii) Physical geography Climatol Germorbi 0 > Climatolog y ୍ଞ > Geomosphology (iv) Woold Regional geography. Deceanogoaphi ୍ତ conventional ୍ Map based Mountains = Atlas -> Oxford Altas Student (School) 0 Rivers +) Peserts Chapter-1) Basics of Environment ()where lize does 1] > Envisonment :> It is derived Environme 0 from forench word Environer/Environ Earth 0 which means Surrounding the Earth Stound ා where life is found. 0 () 27=> Component of Environment 0 \bigcirc Biotic Abiotic (Non-living being (Living being) ଁ 0 cg - flasa, eg → soil, water, air, sunlight etc. fauna 0 68 3 7 What is Nature? Ans Nature is that past of earth which is unaffected by human ٢ being or least affected by human being.

Polas Adeas are 6 least affected Dense Jovest congo basin forest asea cong basin & amazon equator forest Amazon Basin forest Ecology > Ecology is a branch of science under which we use to study interaction of gluosa & fauna among themselves & their combined interaction with sussounding environment. Symounding seament : Interaction/Exchange of ()energy & matters. Tree Local Tenvinondue 0 Easth \bigcirc Ques \$ Who give the concept of Ecology !! \bigcirc Esnet Haeckel in 1869 A.) German Scholar ۲ ⇒ Ecology is made from two words →) 🕲 Oikos + Logos ()habitat (STICILET) to study to study about Habitat of Living fluora & fauna 2 Ecology IS Greek Word. (7) Approach to study Ecology: There are two approaches to study 5 ۲ D= clephont ≥ Tiger ≥ Plant Autecology 1 under it interaction Synecology under it interaction is studies among individual who belongs to different ()element = elephant is studied among belong to Living beings who become steares Specie 8 ÷ 275

[6] Ecopystem > Concept given by A.G. Tansley in 1935 - () & It is was elobrated by E.P. Odum - that's why he is called as Father of Ecosystem, Ecology 0 ()Eco + (ayster \bigcirc is a entity which is made from more than one element & all elements are Envisonment 0 interconnected with each other in such a way that they \bigcirc function as one entity. 0 Ewth ()Surrounding 1000 O Environment O DE LOOT Eg→② E1= Human being ٢ Eg-1) E1= Human being ELOUTH = Earthworm (if extincted) ()Eloth = Tiger (if extincted) Then soil will be infertile \bigcirc Dutcome -> Herbivores overgrow Less/No. production of food grains \bigcirc Overgrazing of grasses 0 Food insecurity in human being rloud Soil exosion 0 T Rain River \bigcirc -Siltation Flood 0 11/ Food grain production get affected 0 Food Insecurity in Human Being \bigcirc 0 Sussounding Environment Ecopystem is a entity laystem Ecopystem 0 which is mainly made from Biotic) Abiotic 6 Biotic & Abiotic components & they EM (component) component two are interconnected in such a \bigcirc E= Energy way that they function as one 6 M= Matter unit L interact with suprounding environment. S = interaction ٢ exchange of energy (& matters, 276

> (or Non-living) > 7 Difference blu Ecology & Ecosystem Ecology -> Interaction among different living beings is studied. Ecosystem > Interaction + Result of interaction & is oftudied. ۲ (All elements function as one unit) 9 (living + living) ()) Noter Types of System :> Exist where cioculation of ٢ * Ecosystem in nature E,M Open system is open in lab (Bio-weaton) ٢ E, X zystem Elose System ()) in mental map 民义 Isolated System 63 in imagination 83 ()Index:> Cisculation of energy and matters in Ecopystem > Circulation of ()energy 22) (25) -> Circulation of Sun matter photic Biochemical engagy (BCE) (33) , energy BCE BCE 3 Carnivores 3 Omnivores Herbtvorez Producer Cr. CE (Chemical energy (iii) Detoivores + Soil (C.E) (after death (Nation +) (isculation of matter -> Cyclic Circulation of energy -> Non-cyclic of Principles on which functioning of Ecosystem is based > \bigcirc (1) Homeostasios/Homeostasis-) § In a computer science same is ? ۲ known as Cybernetic > Damaged bart (by disaster) ÷ Heal over a period of time by itself ()277



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6 ۲ Ireography Earthquakes Zyllabus Voleanoes Basics of Geography ٢ 120plca Indian Geography > heo mosphology Scloud >Winds Climatology Physical Geography 4). Oceanograpi alinity World Regional Geography ٢ (*;;; Atlas -> Oxford Atlas (iii) Continents wise Desert River Capital City (iii) Mountain Ô ٩ Basies of Geography Eratesthenes 1 Threek Scholar reog raphi ۲ was let berson to coin to study ٩ Easth the word deography. to Study about easth ٢ () Age of Earth = 4.5 billion years @ 4500 million year ⇒ Area of earth is 510 million km² 362 million km 148 million tri () ell Max OAsia ٢ 70.8.1. @ Africa 29.2.1. 3 North America Tontinen 4 ۲ cean Max. @ South America 7 P = Pacific Dcean Area 3) Antaxctica 2] A = Atlantic Ocean Area 3] (6) Ewsope Indian Decan T Deusope (Dceania) DAustralia Jussiunding Australia Jussiunding 47 5 = Southeon Ocean Min Min 5) A = Arctic Ocean وي. رويون 149

Asctic Ocean 2 Asia + Europe Ø Loal Mountain 0 Eusasia North 0 Asia America jahan Caspian sea 9 Pacific lacific हिं में Stoait of Horne \bigcirc Dean Ocean 0 Acania Americal Story South indian mond 0 Australia 0 Ocean Africa 0 $\left(\right)$ ා 60 3 South Ocean Southern Ocean 0 \bigcirc Antasctica 0 0 => Shape of earth is cheoid (special sphere) 0 Oblate & pheroid In Rulax Asea 0 Nt 0 > Flattened 6355 R km A 265 km DN →Bulg e V tom equators > Flattened $g \propto \frac{1}{R^2} = g \qquad \forall Min = Equator$ ٢ ٩ ⇒ Ocean = Cover major part of planet earth 8 > fea = (over 2 mall area (could be local or regional) of the earth & ea is always connected to Ocean (pirect Connection or Indirect Connection ٢ 150

۲ ٢ Strait: > Narrow channel of water which connect two large ٢ water body on either side. ۲ ()Gulfof ()Kaehh Bay of Bengal ٢ Gulf of Khambhat ٢ Arabian Palk Ż Strait 2eo ٩ -> Wider Coastline formed. 8 hulf Bay-Ex + Bay of Bengal \mathcal{D} ٩ Both are formed because of intrusion of water into land. ()٩ Narrow Coustline formed (j) 9 > Latitudes & Longitudes Latitude is an imaginary circle Latitude :-> which represents angular distance 9 from Equator either ploth or South 90°N () >Flattened 63 N.P ĮΝ n Equator Bull l S ette also a latitu S.P ٢ 89°S &it is largest 900 possible drawn Imaginary Circle on the easth's surface ٢ that s why known as Great Circle * It divide earth into two pasts that is why it is taken as 3 refirence to measure angular distance ٢ of other Latitude 151

Leetuse-2] 90°N 0 90 9 d N 0°N (8) ು → D Ø 181-2=179 ເເິງ ເ ()Theosetically Historie ۲ =111 km as gon 290's are 96 orgq mile ٢ bassically points. 0 90°B > Distance 6/w two consecutive latitudes is always fixed/constant 0 ۲ = 111km or 69 mile \bigcirc ... Latitutes are always located at equal distance [they are \bigcirc equidistant from each other feeble Sunlight \bigcirc 90 N(N.P) Impostant Latitudes :→ 66 2 N (Asctic circle) Modesate dunlight \bigcirc 23 J'N (Trobic of cane X) hour light Greek Scholars divided 0 easth into 3 climatic Equator (0'(zones (on the basis \bigcirc 232°9 [Tropic of Capricom] of sunlight comping) \bigcirc 66 t°S (Antasctic Circle] Toroid zone Tis ()90°S [S.P] 0 ox Tropical zone ٩ 0 @ Temperate zone XX ٢ 3 Frigid zone 21st June 132 219t March & 23 dept $^{\circ}$ 8 28 rd Dec 232N Ranys ۲ Large Eurface ٢ High Heat Area ß (Low susface Area) (Low Heart) \bigcirc 152 ා

> 6 Month Summer day & 6 month winter night Ì لمسبغ ٢ 662N Saummer longer days 6 Winter aborterdays Ê 0 24 ho/ 12hr= Day ッラ 24h8 12hr=Night) έv <u></u> (Day & Night 66 ± B both reews) ٩ -> Perfendicular of Osbital Plane of Easth imaginary tine both boles which join both boles 84) I Note:→ QB 6 的之 vabitat <u></u> Plane p} Eauth atis ۲ Easth 5.9 ۲ ٢ Rotation of Easth circle of Dight illumination ۲ & unset (Twilight) €) Agy 8un)E W (in anticlock ٢ B wise NOON ٢ Bundise ٢ Midnight Daw n > Rotational Speed of easth & Radius DKmlh Ö GONS 800 km/b > is max at equator 30°N > 15 min at potes 1400 km/h ٢ o 61010m/h D ۲ 30 \$ lucofoult 60°5 ٢ Sookully OKMh Ũ Ð 153



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Histon 8 3 9 Sachin Kuman ٢ Civil Engg. _ अठार आपको फ्रिलै तो इस नव पर क्रोन कर के वापस कर वेहना) 9 7056388039. 633 \bigcirc ٢ (852 357

÷ アショール Dave 0 Histo \bigcirc \bigcirc Hi ٢ \bigcirc 0 Aĸ 0 nii" (Jan ۲ ۲ Fix 1 10 5/6 1/6 1410152 31618 0 1 82 900 1:1:1 **x**, 10 1512 \bigcirc $^{()}$ Fire 0 BC -> Before Christ 0 AD> Anna domini 0 (Latinword) First used by ۲ After birth of Christ Ptonysius Exiguns 0 -Before common Era BCE 920 CF =Common Era ADICE BCBEE I Increasing order Decreasing 2000BCE . . 1999 BCE 2023 CE order 998 BCE - -2022 CE 2012 CF BCF p_ 0 3 Mancontian

۲ ٢ Psuga No. Ó Date Ī History desived from Historia (Greek Word) -7 ٢ which means Written records of Past 6 chronological study of woitten History î.s 9 records of Past (B) Akbar 1556 - 1605 A.D ()Tahangis (UTE 1012) > 1605-1627 A.D. Ì 6 - Raiatasang ini / written in First Hostorical bookof gridia ٢ Sanskoit language by Kulhan <u></u> J&K from GOOBC to 1200AD4 ۲ First Historical book of work > (Histories) written in Careek language by (Herodotug Q Greets 5 11 Persion of ٩ Father of History the 5th Century Ord B.C is E History 60 Proto history Prehistory History ۲ Remains - ((-14) (Ť)_ Tools-Stone ٢ Potteries - clay 8 Skeletons ٢ Boneo Ð · Paintings ٢ ٢) 359

Page We. Marc Battle of Kalinga = 261 BCE years ago=? 2023+261 How many 2284453.090. Quick India Moment => Ð Dource 1942 CF How may years ago? 2023-Study caller igraphy Indian Calendary 1) Vikram Samvat (Era) -> 57 BCE 58 BCE ٢ Vikramaditya. Uijan started King 0.2 6.4 ٩ ⇒ In 1957 adoped (2) Shaka Samvat 780F National calender, Kanishka, King of Kushan dynasti <u>bÿ</u> \bigcirc ٢ [3] Caupta Samuat :> 320 CF started by ٢ King of Gupta dynasty Chandragupta - I, \bigcirc 4] Hijari Samuat -イろ > GALCE started on the memory 0 Prophet Mon. Sahels, of migration 0 Islam from Mecca to Mading. tounder of due to vexing Crist Vikransamuat = 2023 2023+57 - 208 OKE => Skika famuat => 2023-78=194 5CE ٢ **Z**) \bigcirc 63 0 0 3 360

۲ Ì Page No. Ó Dale ð Proto history जही पढ पावा ह ohis \bigcirc decephered Indus Valley Civilization पर आ ARABUTA सामाज्य में भारता दि हिभुवी १२४९ ताम वी History ources chaeological Source **113** Proclamation Studycalled Kany commitments अग्रिलेख Inscription Épigsophy Coing B) Achievement (C) Monuments B Source iterary fon Seculary Literary Source Kelip loug Lifeoary Source 600 < 1) Arthshastoa IN Veds alender 12) Nitishastra (2) Uppnishad (3) Mahabhara (3) Rajatarogini Sangam literature Kup Buddhigt tents 157 Jaina texts etc Ay Travelling Accounts emosi 57 Mascopolo Alberuni Battuta 12) hien 6 Than Abdux Razak (3) Huientsang. 仙 87 Nico conti Ltsing 2.94 Å SORF CF was Ashoka First Ineription which was read deciphese Inscription which was (in) 3 James Princep in 1837 8 ٢ Cancion uchi Ĩŷ



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·Polity

۲

٩ is desired from Yolitela (Greekword) ٩ which means form of gout, citizen or rights of citizens. -٩ Artstotle in his book Politics -> first time used word 9 politics . ٩ Ly Stathis book, he mentioned Political science is study ideal Gout, rights of citizens and constitution. ٩ ٥Ł Aristotle is known as Father of Blitical Science. Ì Consitution - It is a set of rules, which guides the ٢ organization, state, nation Formation of Indian Constitution ٢ 1861 (8) Act of [1] Regulating Act 1773 Þ (q) Act of 1892 Chartes Act - 1773 ٩ (2) (10) Indian council Act - 1909 Ì Pitt's India Act - 1784 (3) (11) Indian council Act - 1919 Charter Act - 1813 (<u>)</u> (મ) (12) Simon commission 1928 1833 (5) Charter Act Ì 1853 (13) Act of 1935 (6) Chastes Act (14) August offer-19.40 Gout-of India Act - 1858 9 (7)16] Cabinet mission-1946 (5] (sipps Mission-1942 ٢ 13] Indian independence Act. 17] Formation of constituent 3 18 June 1947 Assembly & Dec. 1946 ٢ 19] Fromation of Drafting committe 29 Aug. 1947 ٢ 20] Adoption of Indian Modern constitution by constituent 9 assembly on 26 Nov 1949 21] Implementation of Indian constitution on 26 Jan 1950 ٢ 1) > Kegulating Act-1773 This act laid foundation of constitution ٢ C·P in India ٢ ٢ B.P m.p ٢

J Under this act the post of Governor General was created. 0 I A council of 4 members was established to help governor-۲ General in looking after administration of Bengal and ٢ external affairs, war, peace and treaty of Bombay Presidency ٩ and Madras Presidency 3] First time establishment of subseme coust was announced ٩ under act of 1773 0 First supreme court was established in 1774 at Calcutta. ٦ First chief justice of Zupreme court of Calcutta was े Sir Elijah Impey ് 12) Charter Act-1793:> ٩ Monopoly of the East India Company over trade & commerce ٩ of India was extended for 20yrs. ٢ -> Right to issue of license to individual and trading company was also given to the East India Company ٢ ? Power of Governor-General was increased! \bigcirc (3) Pitt's India Act - 1784:-> 0 -> Under this act Board of Control and Court of Directors ()wese created 9 under control of Under the East the British Parliament ٢ India Company 4) Charter Act (1813) (after every 20 years) Ó Monopoly of the East India Company over trade of India ා except tea and opium was abolished ી > 1 lakh rupees was granted to India for development ୍ଷ of Modern Education. ٢ -> Choistian Missionary was allowed to propagate Choistionanity in India so that people could understand modern ٢ Education Govt. Structure and simultaneously Christnity ୍ତ could be spready. ٢

572

(5) Charter Act-1833

٩

Under this act monopoly of the E.T. Company over trade ٩ of opilum and tea was abolished too. ٢ -> New post Governor-General of India was created. The ٢ post of Governor-General of Bengal was abolished. 9 -> Council of Governos-General was now called Council ٢ of India > 10 lakh rupees was granted to India for development of modeon education. ٩ Ð (6) Chartes Act - 1853 Under this act functions of Council of Governor-General ٢ of India was divided into Legis lative function and ٩ Executive Function. Ş -> First time miniparliament was established in India ٢ under this act. ٢ -> I.C.S examination was opened for all on the basis of competition without any discoimination of caste and creed. ۲ -> Satendoa Nath Tagore first Indian who qualified 9 I.C.S examination in 1863 and appointed in the 9 Bombay Presidency in 1864 ۲ (7) Gout of India Act-1858 Under this act power of India was transferred from ٢ the East India Co. to the British Coown. -> Queen of England became Empress (ATATIST) of India -> Two new posts namely vice hoy and secretary of states of India were created. ۲ -> Executive council and council of India were established. Executive council was associated with vicesoy. 9 Council of India supported Secretary of states ٢ for India. ٢

 \Rightarrow Vicesoy was the representative of queen of England So Viceroy was responsible to queen of England. 0 → Zecretary of States for India was appointed by Cabinet 9 of the pritish parliament. So he was responsible ී to the pasliament. > Doctrine of Labse was abolished. (for: Entron of frankers started of) \bigcirc princely states of India. \bigcirc -> Right to adoption was given to -> Now princely states could accept surearinty of the British 9 Gout under subsidiary allaince 0 <8> Act of 1861:> ٩ -> Under this act Portfolio system was first time introduced. ٢ -> Under Portfolio system members of executive council were ()assigned different functions namely Home affairs, defence, 0 revenue &ystem, finance, civil affairs etc. ٢ (9) Act of 1892:> 0 -> Under this act <u>indirect election</u> was started/intoduced ٢ in India (10) Indian Council Act-1909:> or Masley-Minto Keform ()-> Under this act direct relative lection was started. \bigcirc -> Right to deparate electorate was given to Muslim ٢ community \rightarrow First time beed of communation was sown in this act. 9 <u>_</u>; 3 1.1] Indian Council Act - 1919 / Montague - Chelmsford Kejom - 1919 Under this act dyarchy system was first time introduced Qubjects of British India was divided into 2] Non-transferred Subjects (1) Transfessed Subjects 4 0 Non-reserved & ubjects Reserved Lubjects 16 lice system, Civil affairs of Under this Defence, railway, -۲ Knovince, Agriculture, iorigation post office, Income tax, External 8 affairs etc controlled west etc were controlled 64 ୍ତ by provincial Gout. Central Gout.



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-Ì \bigcirc Page No. Date ۲ Chemistry ward derived from Egyption word Chemia 79 \bigcirc which means black \bigcirc Antonic Laurisies -> Father of chemistry Matter > Anything which has definite mass & occuby the space is called Matter Micrometer = 10-6 meter. States of Matter (5) _ · · -٩ (1) Solid (2) Liquid ٩ 13) Gas ٩ (4) Plasma [5] Bose-Ein Stein-Condensate (REC) Aublimation Ex Todine Napthalene, Anthoacene, Mattor -> ٢ > Interconversion of Matter:> [below B.P) (at Bir) ete Vapourisation/Evapo ration fusion/Melting Ð 11 Gas Solid Liquid ٢ DV $\overline{\nabla}$ $\Delta \mathbf{V}$ Solidification Condensation 9 ٢ Desublimation / Bublimation (B) Ex - Dry Ice (co2) Evaporation & Surface Area 9 Evaporation & Temperature \bigcirc Exaporation a Wind Speed (ŝ Evaboration & Humidity (Automatica) 2 717

* Page No. Date -> Plato <u>Elements - Jame type of atoms formed the elements.</u> He These are 118 elements are known to Human ફેર્મ $\left(\cdot \right)$ Metalloida 89 metals (22) Non-.(7) metals ->`/ 92 elements => Maturally Occurring ٢ Metal 7001 @ Non-Metals Flements 5 <u>→Ti</u> (3) Metalloida →Sil@ (i) Metals:--> Coff Malleable -> can be drawn into sheets Ductile -> can be drawn into wire. <u>⇒ Exi</u> @ Sonorous -> produces ringing sound when hit Lustrous -> Shimning good Conductor of heat & electricity Conductivity -6 > Exce All metals are solid except Mercury (Hg) forsonous metal liquid at room 2 Excei Zalso called quick silver temb. 125°c1 most matteable (can be drawn into thinest Gold (Aul € Sheet most ductile Kean be drawn into 2 km ٩ wire from one gram of gold =) ٢ \$ (mainten) È 718

1979 () ٩ Page No. ۲ Date ements. -> Platinum (P+) is called White Gold Hardest metal => Chromium (Cr) Strongest metal > Tungoton (w) $\left| \begin{array}{c} \\ \\ \\ \\ \end{array} \right|$ is used to make filament ٢ Melting point (3422°C) of electric bulb (853) (757) -> Osmium (05) -> heaviest metal (maximum density) -> Lithium (LS) -> lightest metal / lowest densite **E** Used to make astifical Pacemaker. -> Cloanitha (U) -> metal of hope 3 → Titanium (Ti) -> metal of future 9 -> Silver (Ag) -> is the best conductor of heat &- \bigcirc electricity is the most conducting material -> Copper (Cul? ۲ en hit > Excess amount of mercury in our body causes Minamata Disease ous nerve dystern affected electricity & first seen in Japan > Excess Cadmium (Cd) cause amount of (Ť) Itai-Itai or Ouch-Ouch diseas Excess amount of Copper (Cu) causes Silver Wilson's disease / Wilson's Syndown (Liver affected) ? thinnest > (opper Sulphate (CuSOy. 5Hed) => Blue vitro (dye industries) <u> g</u>old Fessions Sulphote (Feso, 7420) => Green Vitsoil Vitroil =) (obolt Sulphate (Cosoy 7420) => Red Zine Sufphate (ZnSoy, 7H20) => white Vitooi) 3 (; ; Support arid (H2SO4) => Oil of Vitori) 2 69 719

Page No. Date Fiseworkers - Green colour => Basium metal Chap ()Crimson red colour => Stoontium Metal (Sr White colour => Magnesium metal (mg) ្ង ී Potassium [K] & Sadium (Na) +> &oft metals where can cut by knife > highly seative metals (can get five) always kept in Kerosene Oil > Francium (Fr) & Galium (Ga) metals melted when these metals but on balm [17⇒Hyd) > Zine phosphoide -> used to make hat - killer ٩ => Zime Oxide -> Philosopher's wool ୍ ⇒ Barium Zulphate (Basey) is used as a barium meal in the X-rays of Aladomen Hyd 🛈 > Silver Alatrate (AgNO3) is used as a marker during 127 Heli election/ wating also called Lunax Caustic > Heliur ≥ Silves Jodide (AgI). is used in Astificial sain/ Astificial cloud (Cloud seeding) > Heliu > Potassium Resmagnate (KMmOy) 113 called red medicine > Hagon) lise to kill geomicide ⇒ Ferrous Sulphide (Fe 32) ⇒ Fool's Gold > Bador Checoneto 720



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٢ (ii) ٩ (⁽ Science ()V Lize Science ٢ Chemistoy Physics L Biology $\left(\cdot \right)$ De Science (Biology) :> The study of living thing called lize Science / Biologi ্ট logous (study 081 6 living Aristotle is called Father of Biology / life science \bigcirc ()7 Bacteria 7 fungi iving things Ĩ Plants \bigcirc 7 Animals ٩ fathes : Asistotle O Zoolog ٢ Branches of Biology Study: Animals T 6 (Phytology) Botany Study: Plants ٩ father: Theophrestus us: > 117 Human Physiology ras Blood Lb> Blood circulatory system 10> Respiratory Systen 9 productive system 1d cretory system 10) 142 Ske System & Muscular System tal Co-ordination & Contral Ozencew Digestive System & Nutrients 2 Uh> Ś 629

Page No. Dale (2) Plants (Reproduction in plants) Nucleu: (3) Cell Shap (4) Tissue RBCS Diseases, Important Vaccines & Test for diseases our (6) Classification of living organisms RBCo (7) Miscellaneous Topics Hat Human Physiology ίσc KIS BLOOD > The study of Blood -> Haematology ox Hematology 12-1 fluid connective Tissue Deficie > Blood is the > The pH value => 7.4 (Slightly Basic/ Alkaline Excess () -> The density of Blood is more than density 0 Water ()-> 6-8.1. Bload is present of the total Body Ì Blood (100 %) ()Ų. (J (2) Plasma (55%) (1) Formed elements (45%) mo Lize Spr (Blood cells) Carl affir RBCs WBCs Platelets => Bre RBCs (Red Blood Cells) :> Are also called Exythrocytes Breat Spi Formation of RBCS => Bonemarrow (Red bonemarrow 0 371122882011285 Bonemasson Semisolid material present in 2 large bones Hypoxi 4.5-5.5 million RBCo/mm³ of blood (Multineta) 630

٩ ٢) Frank Cont Nucleus absent in our RBC9. Shape of RBCS => biconcave $\left(\right)$ in the transportation of gases in KBCs help our body (O2 & CO2) Stosrs RBCs appear red due to the presence ${}^{\bigcirc}$ Hom Blobin (H6) complex protein molecule which contain Evon metal (Fe2+), (decilitée) 12-18 gram of H6/dL of blood. Holagy ine ine Deficiency of iron (Fe2+) -> Causes Anacmia discase Excess Smount of Iron (Fe2+) > Siderosis disease (welder 1s dîseases Ð Oxyhaemoglobin H6 + 02 (3)H6+ CO2 -> Carbamino haemoglobin Carboxy hoemoglobin Hb + CO٩ 1. Suffocating agent (\mathfrak{D}) Carbon monoxide most toxic gas) (_**)**_ Lize Span of RBC3 = 120 days (4 month Carbon monoxide (co) has 288-300 times more 3 affinity with haemoglobin as compare to the \bigcirc ⇒ Breakdown of RBC3 ⇒ Exytheolysis Breakdown of RBC3 occur in Livers spleen Spleen = Graveyard of RBCs emászow _____ ٢ (क) ब्रिस्टान) 6) Bload Bank of the Body > Always seceive oxygended blood puse blood in Hypoxia (deficiency of oxygen) Dusing Hypoxia the no. of RBCS increases usung Mang in our () Bloo 631

35 Page into. Date => Abnormal rapid in crease in the number of RBCS is called Polycythemia In thalesemia disease the life span of RBCS decreases from 120 days to 90 days. Monocyte Note: ≥ Due to the increase of nitrate (NO3) in body causes Blue Baby Syndrome (Mathemoglobinemic disease Nitrate converts ferrious (Fe2t) into Ferrie (Fe3t) Note:> BLO O decreases the oxygen level in the body ymt O Ques- Which of the following is the common Cause of methaemoglabinemia or Blue Baby Syndrome? LED Nitrate (NOZ) (1) Dezociency of O2 (C) Ferrous (Fe^{2t}) (d) Ferric (Fe^{3t}) Ac 🚳 Caus @ > Juning WBCS (White Blood Cells) abso called "Leucocytes". WBCs are .9n > Colourless cells Nucleus present Equination - white bone max to un 9. 4000 - 11000 WBCs/mm³ of bloue 2e 3pan - 11-20 days Platelet: BCs formed the immune system of our body. (Sensity agent) (Soldcers of the Body Type of WBCs > Agranulocytes (2) Granulocytes. l'ize-sp (Aurenter) 632

÷ ٢ 2 Style Car ٩ RBCS (D) Agranuloeytes @ Granulocytes <u>_</u>}. > Eosinophills . BCs → Basophills Lymphoeytes Monocytes \bigcirc > Neutophills @}` ín B-lymphocytes T-lymphocytes disease Note: > Monocytes cells are the largest cells of the Blood f& largest WBCS \bigcirc the smallest WBCs ymphocytes are ୍ୱିମ During AIDS the T-lymphocytes cell affected aby ą. Ť Cause > HIV (Human Immunodeficiency ()-> Juring Cancer, the number of WBCs first increases ۲ then decreases Concer, the WBCS affected In Blood I called Teukaemia ()of Cancer is called Oncology The Study Platelets Platelets are also called Thrombocytes" bisely. Lormation -> Red Bonemarrow ٢ Nucleus >> Absent ٩ 1.5-3.5 Lac Platelets / mm³ of Blood 9 lize-span = 7-11 days ٢ Orento 1. 633



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. Ì Economico ٩ 9 1 Dynamîc Static ٩ PBasic Concept ⇒How much is India's GDP Inflation Rate ⇒ GDP, GNP ٩ Budget/ Economic Survey Rate 0 pics -٩ O Nature and Scope of Economy [Dynamic's ٢ @ National Income & Static + Dynamicy \bigcirc (3) Eyears plans/ NITI Ado G Static 3 6 (Finance & Banking & Static &) ynamic y Ô (5) Taxation/ Inglation/ Population (Static & Dynamic) ۲ Budget & Econatric Survey Dynamicy ٢ (Tr (1) Nature & Scope of Economy :-> 9 Types of Economy: > 3 types (i) <1> Capitalist Economy ٢ (2) Socialist Economy 235 Mixed Economy ٢ => Concept of Capitalist Economyous given by Adam Smith] (19 his book weath of Nation ٩ > Capitalist Economy means free market economy where ٢ zactors of production are in private hands. It is also called as Poivate Enterpoise System, since ٢ how much the decision of what to produce & Ð by the market. to produce is taken ò

* <u>- (</u> Adam 3 mith in his book Wealth of Nation introduces a term Lafsgex Faire which means Non-Interference by ۲ the gout. in the factors of production. ٩ When USA attained independence, ideas of Adem Smith ヲ were adopted in USA Economy. Socialist Economy :-> Based on the concept of KasI Marx . Socialist Economy means factors of production are in the hand of state & therefore state has the main role in ounning economy. It is also called as state Economy Note- Russia (USSR) adopted socialist economy in [917] ×. . Revolution after Bloshevik United Soviet Socialist Republic ⇒ China Adopted Socialist Economy in the form of ٢ ා Communist economy. ()Mixed Economy: >> Concept was given by John Maynard ٢ Keynes in his Book The General Theory of Money Î Interest and Employment. 0 > Mixed economy means the factor of production will be Ò in the state & private hand both, thesefore it is a mixed concept of Capitalist Economy & Socialist Economy both . eg - India (Mixed Economy) ٢ but in 1991, ander the PM Shri PV Narsimha f 0 finance minister Src. Manprohan Singh adopted đ LP & (Liberalisation, Privatisation, Globalisation) G > China in 1985 adopted "Open Doos Policy" under ŧ ĝ Mao Tse Tung USSR adopted Glasnost & Prestorika under ラ 6 Mikhail Gosbacher. ⇒ Glasnost (means openness) & Prestooika (means Restruct 222

@ Ques > Which of the following is tone for the Yublic Sector Unit? a Most of assets is owned by group of people (jii) r companies - 26> 9 KCS government 11 1% 1 rd' individual 1 11 17 9 ecture-2) Sectors of Economy 6) Economic Activity: An Activity that generates economic transactions is called as Economic Activity. All types of ٨ economic activities are divided into 4-Sectors are P called as Sectors of Economy. (1) Krimary Sector ٩ (2) Secondary Sector 8 (5) Testiaxy Sector ()(4) Quateonery Sector ٢ (1) Knimary Sector: > All the types of economic activities where ٩ there is direct uses of Natural Lources are categories as Primary Sector. Eq: > Agriculture, Mining, Fishing, Forestry (Lumbering) s Bee-Keeping, Animal Husbandry, Poultry Farm ۲ Diary Farm etc. 12> Secondary Sector: > AN those economic activities in which product of primary sector is taken as row material ٢ ٩ is called as secondary sector. Eg: Manufacturing, Steel plant, Converting wool into 3 thread, Carbontary, Construction, Textile Manufacturing ۲ ٢ <351 ertiary Sector:→ All the economic activities in which service is involved is called as Tertiary Sector. ٢ \$ 223

Forexample: Banking, Insurance, Medical Professionals, Teaching, electricity distribution, gas distribution, saloon & spa, toons port activities cooking are the types of Tentiary Sector. 0 (4) Quaternasy Sector: > This is a new form of economic ٩ activities which is called as Knowledge economy. Ita application can be found in all other sector of economy For example - Research & development, &kill Training, ()- Innovation, Discovery etc. () testiasy 0 In India, most of the Income comes from pointary Independence contribution 07 Q obector but after but gradually sector in our economy was very high. ٩ India started developing its manufacturing & services \odot Sector & today Serviced Sector contributed highest ĺη ()economy (\bigcirc) Contribution ()Testiasy Sectos: 54% ()Secondary Sector: 25%. Krimary Sector: 21.1. because Note: > Agriculture sector in India is backward holding is) i) due to High population pressure fland 0 Very Less ٢ (ii) Middle man system of agriculture market. 9 ා Ø ٢ I ٨ 224

63 ٢ (hapter(2) National Income ٩ ٢ > National Income means the net value of all the good & services produced by a country - in a \bigcirc given financial year is called at its National $\langle \rangle$ ٩ gneome. Financial Lear: > 1st April - 3 th March ୍ଦ eg:- 1st April 2023 - 31th March 2023 ٩ 2023-24 financial year ٩ > National Income is calculated by 3 methods :> Ô KIS Income Method ٢ (a) Consumption Method (3) Product Method ٩ ⇒ For the 1st time in India, National Income was (iii) calculated by Dadabhat Nausoji in his book \bigcirc Povesty & UnBritish Rule în India. This book was published in Lin this book Dadabhai Nausoji \bigcirc calculated Income of Indians equal to 720 in a year which was very less in compasison to the ٢ income of British. This book instantenously became 6 very famous. In this book he has given the theory of \bigcirc Drain of Weath by the british in India 3 means british taking away India's wealth to Britain ۲ > padabhai Nausoji <u>3 times</u> the member of Indian Mational Congress ٢ & 1st British Parliament ()> For the first time, scientific method to calculate National Income was done by VKRV Rao in ٢ 1931-32 . After this National Income Committee was 9 225



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8 \odot ٢ GK 9_ 1 $\langle \rangle$ Static Dynamic 9 -> General Knowledge -> Current Affairs <1> Basic computer Knowledge 9 < 2> Imp. Gov. Programmes ()(3) Sports *(*) (4) Relevant Information about ٩ India Meritage Sites 3 ۲ (5) Books & Authors 3 (6) Ast & Culture ٩ (7) Miscellaneous Topic 3 BASIC Information. ()() Father of Computer : Charles Babbage ۲ (2) Cussent computer Aschitecture was given by: Van Neweman ۲ ۲ He said that computer has 3 components (i) Input Components ۲ (ic) Dutput 11 ٢ (iii) Central Processing unit. + Moniter > Output ٢ Input components Output) Device . F CPU 9 MacBook by Steve Jobs (Apple Company) became the) yirst person to break Wan Newman Str. 3

• • • •	
Lificial Intelligence was started by : Alan Turing	
· tathes of Artifical Intelligence : John Me Carthy.	0
* Types of Computer: >	۲
Thinks of Computers "	\bigcirc
LisAnalos Completex	\bigcirc
(2) Divital Computer	٢
-13> Hybrid Computer	0
- (4) Micro Computer (8) Quantum Computer	0
	0
Analgo Computer: - In analog computer, the input is inform	
i hat a wahit faithe 15 yille of faithe Oc. but the	
hunical quantity like temperature pressures of the	٢
the the The men heretes Ammitter, open meter one	ି
Ex-Voltmeter, mesmometer, the signals received are continuous in In Analog Computer, the signals received are continuous in	٢
In Analyse	
(2) Digital Computer :> A digital computer takes input in form of	()
lighter & alphabets. These it converts digits & alphabets in	۲
Binary functions of (021) & gives output in digital form.	0
Ex- Simple Calculator	
Digital Theamometer	0
Advantages of Digital Computer > (i) More faster than analog	G
en e	¢
Disadvantages " " "> Less accusate than analog computer	
Ebecause analog gives output in form of continuous output? which digital output obtained is discrete in nature.	
* Analog computes cannot handle discrete data & digital computes	Ø
can't handle continuous data, therefore Hybrid computer 15 designed to Handle hath.	
4	G

(iii) Hybrid Computer :- Hybrid computer can handle both the types ۰ of data i.e. analog & digital both. Therefore, a hybrid compute 1 is combination of Analog Computer & Digital Computer both. **)** To handle the continuous data it behaves as Analog compute to handle piscrete data they behave as Digital computer. The Hybrid computer are faster as well as they can handle 9 all type of data also. (Analog + Digital) 9 Ex:- Scientific Calculator. ٢ (iv) Micoo Computer :> A micro computer is that computer that ٢ uses microprocessor A Computer based on microprocessor ٢ uses micro-chip & Microchip based on Single Chip. ٩ Ex:- Labtop, Desktop, Mobile Phone etc. · 🕘 (V) Mini Computer: A mini computer has high computing capacity ٩ that uses multiple chips & used for businesses. 臠 (vi) Main Frame Computer: A main frame computer has very ۲ high computing capacity & it is generally used for large 9 calculations but it is different from the super-computer ۰ (۲) bécause the main frame computer are mainly used for . 🌍 large calculations for large organizations ٩ (viv Super Computer: > Super computers are also very high calculation ٢ machines but they handle those type of data that are high ٢ variable in nature, also these data are variable at the Date of billion times in a second: Ex= Nuclear Bomb Blast, Space Research & Development Missile Launching, Phasmaceuticals Research & Development ٢ Weather Forcasting. **)** -> In India, C-DAC (Centre for development of Advance. (³) computing), Pune is responsible for supercomputer developments.

5

-> First Supercomputer developed by C-DAC-PARAM (Vector Processor based Supercomputer) 6 -> C-DAC was established in [1988] Pune, but it made its the 0 1st Supercomputer of India in 1991. \bigcirc -> A supercomputer produces a very high amount of heat, therefore ٢ it requires to be kept at cold temperature environment. -> Also a supercomputer uses chip made up of Gallium instead ٢ of Silicon chip because the silicon chip produces more heat than \bigcirc 0 Gallium chip. 0 -> Fastest Supercomputer of India: Pratyush & Mihir & usedfor 0 Weather forcasting. 0 Combined Speed: 6. 8 Petaflops 2 Petaflop = 10 15 8 lops \bigcirc flops = floating points per second. 3 -> India's fastest Antifical Intelligence based super computer: \odot \bigcirc Hirawat Speed: 1.03 Petaflops. ु ٢ * National Supercomputing Mission: > (NSM) ٢ This programme was launched by Government of India in 2015, to develop high speed computers for India. The target is 9 to install moke than 7.3 computers till 2030. For this India 0 also collabrated with ATOS: Supercomputes Dev. Company, France 63 First Bubercomputer Der Under NSM! > C Speed: (0.9 ff 0 Param Shivay : IIT-BHU World's Eastest Zuper Computer :-> 6 Frontier (USA): Speed 1 Exatlops = S 1×1018710/9 0 = 1000 Petatlops C Õ 6

(VIID Quantum Computers:> 0 -> Concept was given by : Paul Benioff -> Classical Computer is based on Processor that uses Logic Switch ث ک while Quantum computer uses Quantas (e-) which is based \bigcirc on using Qubits (Quantum Bits) 6 * Advantages of Quantum Computer :-> Ki) Quantum Computer has very high computing capacity in ٩ compassion to classical computer. ()(ii) Where classical computer fails, quantum computer can .) 6.0 easily work. (iii) Super computer which is based on Quantum computer has **(**}) very small size and small power consumption that is equal ି to the mobile phone. ()* National Quantum Mission (NQM):-> ٩ This programme is launched by Government of India in 2023 9 to promote research & development of Quantum computers. This mission targets to develop quantum computer with a \bigcirc capacity of 50-1000 qubits in 8 years. 9 ٢ The Quantum computer could be used in development of 6 superconductors, will be used in Navigation, Satellite based communication, drags development, space technology etc. **(**) * Woold's Fastest Quantum Computes-()Osprey: 433 Qubit L> Developed by IBM () 0 -(÷---) ()ंै 7