

## **GEOGRAPHY - 1**

Time Allowed: 50 Mins. Max. Marks: 60 Instructions to Candidate Q. Marks 1. There are 05 questions. 2. 3. All questions are compulsory. 4. 5. The marks carried by a question is indicated against it. . ... Keep the word limit indicated in the questions in mind. Answers must be written within the space provided. Any page or portion of the page left blank in the Question-cum-Answer Booklet must be clearly struck off.

1.	Invigilator	Signature	

2.	Invigilator	Signature	

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Roll No	57128	
Mobile	No	
Date _	16 NOV. 2021 1	

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REMARKS

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Q1. Discuss the role of albedo of ice caps in maintaining heat budget of earth. Analyze the impact of deposition of black carbon on ice caps on their albedo.

(10 Marks) (150 Words)

part of solar readiations reflected back to space before reaching to surface of earth.

This varies from planet to planet and for earth it is 35.1. Mainty clouds and ite caps are responsible for albedo

clouds 3 // glaciers.

These readiations are not absorbed by earth.

and temperature of ocean is atmosphere is maintained to normal. In recent period due to impact of climate change.

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impalanced (It is sum total of sun tousiations ecceived by Earth and reflected back to space)

hading is Apart from Jastu melting, black carbon (a diposition hort-lived pollutant) is also impacting of Black caron heat budget by depositing on icecaps caps & Black carebon tend to absorb all the incoming readiation and increases reak of meeting of ice-caps which in twen reduces \* Bitti you melting of ice-caps has huge impact on write temperature of easth, water-availability built and livelihood of People. So, It is very impo-(added due to incomplete combusting, buring of woods, fuels.). its perentage now- would be very helpful in near future measures like adoption of LPG and other type of fuel may help. (5) 4 49 Discuss the strangics its Countre environm of black Combic france (A) of the company of the form of the company about And Bolastine and Aleas on borner

Most scientists agree that climate change is making events driven by the jet stream worse. Explaining the phenomenon of jet streams, discuss how climate change affects Jet streams are we'ved blowing but height the jet streams? of 15 to 18 km with a speed of acound Loo kmph. (at teopopouse.). The course of these streams is not influenced by the solare oscillation and change in climate. Interest all Jet Stream. ( These moves towards Theadyall noveth in the summer and winter period). Jet streams are formed at confluence of ferral and Headly -cells. All the Jet steepam (Exception Niedmoreeastey jet atream flows aluding summer over mainland Judia) are mestury in nature: lake to restation of earth from north west Jet stream influences the monsoons in to last.). India and accidal and prequency of descripted is generally determined by these. In Present times, allmate change is influencing the jet steern. Explain the Implication of + Mars sunki your barak broks & Remarks charge



troler by without the property and the LEST TO JUNE UTT . (-JULIA 1) FELL TOUR OUT State of per interestable of the sound of the the the state of application the project of the second The same of the same of the same bound with the prising with free fred the White was since the second to the file MARION STORE THE STORE S wars warmed while shall maistely police smoother of got them supply about the himse the state of the s the suppose of the supplement of the (Helt) the parallely toke Tokelson has winted Day pe found worth personal by the statement it iposition stamps with the top up manually to soll problems from

Major ocean currents are greatly influenced by the stresses exerted by the prevailing winds and Coriolis force. Discuss the forces which influence the major currents of oceans. Explain with examples why oceanic circulation pattern roughly corresponds to the earth's atmospheric circulation pattern. (15 Marks) (250 Words) Ocean averents are proper channel of water in the ocean flowing in particular abieletion at pareticular time period souce ages. An. bebrader Gulf Stelans 4 Good effort + Better if you "sparkland Atlantic Ocean & Major werents ocean current are Pufluenced following major peators betterif you primary suandary forces

for generation of equitorial coverents in all major ocean. 2) coreioùs force: responsible for movement of current "left" in the northern hemisphere and "reight" in Southern Hemisphere. ( Brasilian in Southern and Gulf Stream in north are examples.) Gulf Stream is north are examples.) (3) greatify - alue to density (High) - cold water gink and warm water flows on surface. reexponsible for vertical movements of ocean thing (4) Reessure greatient is foreces water to flow.

In the which ultimately forces water to flow. > owevents. politione of southeries. I would blowing in the northern tremischen of treadmental of the Country of the alternice By compaising it with alterntic ocean circulation— it can be lasily comprehended- built stream which is reesponsible for the warm port conditions in Deitain is largely influenced by the freedominent westerly would in these lattituale.

How have not addressed the and part of the grustien

Poles towareds Equator can be attributed to some extent to the easterly winds.

cuen current plays very important eale in climatic, economic scituation of destination area cold currents can make the destination area desert like eiteration.

meeting of cold and Hot ocean current which can is best fixtuing grounds. And ocean current (wovers) is religionally for best reveather conditions in Britain.

is also largely dictated by monsoonal

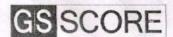
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Q4. Apart from thermal gradient factors other factors such as relief, orography and upper air circulation are responsible for onset of monsoon in the Indian subcontinent. Elucidates (15 Marks) (250 Words)

of wind direction such change in flow countries) face monsoonal climate. Maximum rainfall is relectived in just 4 months of fear (from June to deptember.)

(High Temp) Pressure

Good well

High Tressure

Equator

is largely by thermal greatient due to excillation of sun towards temple of conceroscillation of sun towards temple heated and north hemisephere is intensely heated and low pressure is gre created winds from south of equator from thigh pressure.

After this onset other factors Propart Monsoon such as: 1) Relief and topography: - western ghats and Megha-laya Hills in Audia Jaces the veographic ecainfeell. (2) Upper sire circulation Consternation In upper our chowlation faingall. Stelam as well as exographic rainfall easterly jet stelam influences. a)Easterly jet streeam strengthens the monsoon by bringing cyclones of Bay of Bengal and to Judia mainland (Buret of monsoon) b) westerly jet stelan- witholeand plays a majore reale in onset: of withdrawel is not on time- then onset can be delayed and also the Esselak of monsoon is also coused by westerly jet stream. 3) oregraphy - mighty mount ains (Himalayas) Plays leain beauting usuals) in the country only. > You have mixed by buyaspection

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and movement of monsoonal usinaly.

towards eastern Judia is due to deflection of what from the myanman tills and re Not had thence, It can said the monsoon is with trivial are influenced by lot of jactors. monsoon plays very important reale in economical (agriculture in Judia = 501. is reain-fed), cultural (majore festivals like Tegi, Kaksha Dandhan & are celeberated during this Period) and elimatic (provide relief from intense Due to change in climate - a majore factore ENSO (EN-Nino, Souther oscillation), find Judian ocean clipale also influences the conclimate fuchan monsoon. (3.5) HIS = 3 Judian monsoon.

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Q5. "On the one hand volcanoes cause harm to life and property, displacement of people and air and water pollution, but at the same time it provides benefits to people in different ways". Elucidate. (10 Marks) (150 Words)

valcano

volcano is defined as a vent through which Pyroclastic debrui, ashes, lava comes peom Puterior of earth to surface.

volcanoes are associated with the earthque Kes, huge loss to life in nearby active volcano. es (Hawaii islands- Volcanoes are reexpossible fore causing huge destruction.). It sold pollutants like SOz, sulphur acrosol to the atmosphere (do reesponsible for air pollution) and when these pollutants got mixed with water water Genually, it is a periodisposition contaminates that

butcomes but the below written arguments present different Picture. debreis and lava to the earth surface These materials after being added to local soil- provider increased fertility.

2) Volcanoes which are not active now for instance Decean teats of Judia provides thighly fertile agricultural land black soil Lee cotton Production: 5) Lava contains a no. of minerals-metallies minerals-can be havenessed economically. 4) metomorphic reacks formation also take Place. So, marble, schist and other economically important products formed. S) Valcances contains large no of acrosols (which absorbs the incoming solar readiation) and of readuces the temperature of earth. So aid in global warming. 6) volcanses add a number of suspended
Particulate matters which aid is consensation of our and rainfall is consensa-Heter Consider it as a beautiful balance of Cabling consider it as a beautiful balance of thatspringing quothermans energy etc.