

An Institute for Civil Services

IAS TOPPER'S

TEST COPY

KUNAL SHOTE

RANK - 640

GEOGRAPHY TEST- 2





TEST - 02

GEOGRAPHY

Time Allowed: 3 hr.

Max. Marks: 250

Instructions to Candidate

- There are EIGHT question divided in Two Sections.
- Candidate has to attempt FIVE questions in all
- Question No. 1 and 5 are compulsory and out of the remaining, three are to be attempted choosing at least one question from each section.
- The number of marks carried by a question/part is indicated against it.
- Answers must be written in the medium authorized in the Admission Certificate which must be stated clearly on the cover of this Question-cum-Answer (QCA) Booklet in the space provided. No marks will be given for answers written in medium other than the authorized one.
- Word limit in questions, wherever specified, should be adhered to.
- Attempts of questions shall be counted in chronological order. Unless struck off, attempt of a question shall be counted even if attempted partly. Any page or portion of the page left blank in the Question-Cum-Answer booklet must be clearly struck off.

1. Invigilator's Signature _

2. Invigilator's Signature _____

Name KUNAL SUROTE Mobile No.____

Signature _ Kubblute

- DTRY TO FINISH THE
- (2). Add more spatial aspects, maps and diagrams.
- 3) Structure your answers properly.

ATB 31

SECTION-A

Attempt all questions:

1. Answer the following questions in about 150 words each:

 $(10 \times 5 = 50)$

- (a) Write a short note on Ice Crystal Theory.
- (b) Draw the critical analysis of the concept of social capital.
 - (c) Discuss the Koppen's climatic classification in detail.
 - (d) Write a short note on sub-aerial erosion theory by Dana and Shephard.
- (e) Biodiversity assessment must be factored into all economic activity. Comment.

given by professor Hanifan. Awarding to him mutual trust and healthy interaction between members is essential for survival of any society.

Prof. Manifor was of the apparent that

people in bural & areas a have better interaction, debute amongst themselves than the people in

similarly people in developing regions of the world are a bigger social capital

Remarks

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then people in leveloped world He was of the opinion that arrangement, overconfident people distroy sound capital and hunde knd people build sonal capital. Energe town city Regions with nowever It has been observed that, people in swell and areas are not always hundle and kind to each other eg: Hours Killing cases

Mos lynding et AND people in wilson areas are not always arrogant so and are many a times very hundle eg: People somme træller during Terror act Despite being evergeneralised in nature Dief Manifan & started believe regarding social capital Budiversity assessment is the act of incorporating and calculating the effect and and a impact of economic activity on the envisionment As survival of human species is linked to the swertval of environment, budiversity is absolutely essential.

Awarding to the several reports of UN and IPCC3 brodwersity is love losing its pronumence at a poster este. 70% of usect spenes have already being extirct. Recent extendion of Bemboly Rat in Australia marks the impact of economic activity on broduceity concept of New environmentalism population was inspired after will should be Sulled at Perspront of evononic development. Environment and growth are not to reperate entity and tow sustainable divelopment It only possible by futuring brodivorsity assissment into all economic activity.

- 3. Answer the following questions:
 - (a) Discuss the formation of Tropical Cyclone. Why cyclone Fani in Odisha is an unusual storm? (250 Words) (20)
 - (b) Explain the detailed concept of Airmass and also elaborate its detailed role in macroclimatic changes. (200 Words) (15)
 - (c) Write a short note on Biozones of the oceans under Pelagic habitat.

(200 Words) (15)

Froqual angles are to wind conditions

that develop us areas of loss preceive and

high temperature. These condition cause preceive
inform

updraft of air so which eventually hads to

to ignoric artively. These are dorkwise in

Southern bemiephere and anticlockwise in

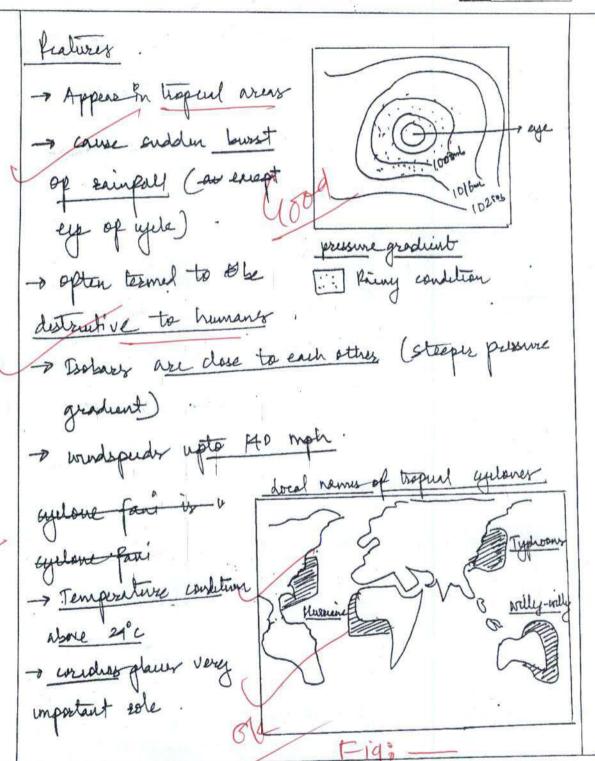
northern hemisphere.

hemesphere ->

Generalian of Love Prosenx

tropual areas of North

lone pressure generated in NH.



GS SCORE

why ob yelone fair was unusual strent :-Myority of updones originate in Buy of Bengel reason due to following reasons "-O I Suefare temperature of water above 21°C @ fetreating mansoon lanser law pressure undetween 3 Leftover cyclener from Paific orean entre Buy of Bengal Do unusual due :-- ferminature to the right hand side after hitting odusha court (landaraa) o caused distruction property along odulus wast

Remarks

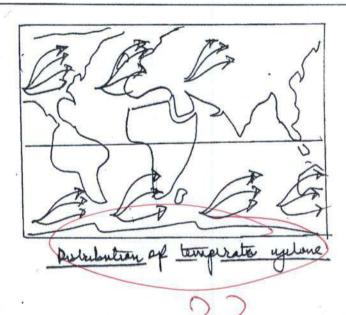
Sime majority of yelone deppose (and) after hitting worst , but faut intensified by moving a dang the wast. Therefore yelone fam in Avenues are defined as homogenous of air which wist over temperate areas nomagenous in terms of temperature and A Aux mass passing over a call area (eg Suburia) will be so will cold air mass Similarly are arus hot areas are called as hat the air mass

Air muss lades to the formation of Prouts. These phenomenon of mauro chinate by gener formation of & temperate cyc Remarks

formation of fronts and to do excluses which are beneficial to humans.

og: for fall crap in

Indus subsentinent



- 4. Answer the following questions:
 - (a) Write a detailed analysis of ocean bottom relief of Pacific Ocean.

(250 Words) (20)

(b) Discuss the problems and prospects of weather forecasting in India.

(200 Words) (15)

(c) With respect to GHG and ODS, explain what is meant by global warming potential and lifetime (also called as time horizon), and their relationship along with their effect on overall global warming. (200 Words) (15)

orean of the world. It is surrounded by

continent land mass on three sides

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To the North of Paufic orean there are Mention Island (wolcom's virgin). The the bearing Strait connuts Pacific ouan with Bering sea TO North West his the Tapanese a island formed due to subduction of Parfic diplate. To the south has the mornane transh maliformed dued to subdution of Paulitz plate 6 under philippines plate. It is the deepert Opidybranch in the world, similarly Tongo and Kormadee of his tre firsther south. To the eastern bes the east purple Roge. Ther gives to rece to Mawii Island

Other ridges over Trande fina ridge and, chagos rise, Peril-chile ridge Weather in India is influence by ownery of factors: - Movement of ITCZ to the subscontinent food Movement of & high pressure to the North of Hundaugs neating of Teletare western platery South west trade ENDIA North east winds In winty

Due to the large number of variables effecting moneron is postular and weather in general, weather fine creting is problematic and difficult in India In 2002 Indian matienological department (1mb) come up with a new model preduting the 10 of the 16 earlier variables were replaced and new more refined variables were added Aux prusure drop ocean temperature, Indian ocean depole rel-Nurs all these faction are considered making production of weathers more pleine

GS SCORE

ylolad waxining in defined as the rapid increase in temperature of earth atmusphere causing both biofic and absolic changes. Temperature of the almos phere merene both naturally and ranthropogenic activity. nowever past p industrial revolution, authropoguichi Poutous are playing a dominant role. certain gross like & Nitragen oxide methane, Carbon menoride, sulphure Phriside, et can the green house effect i.e they trap the long wave reduction emitted from the

earth swefare. This cause general warming of atmosphere. These we called as green house gaser.

greenhouse gas potential is defined as the

pro potential of or capability of gass to teap

the reflect ground wave radiation.

considered to be 1. Mathane to be is 300 times

more potential.

Their half life is defined as the time required to reduce the effort to half and for the time required for complete dissociation is called as life time.

SECTION-B

Attempt all questions:

5. Comment on the following into 150 words:

 $(10 \times 5 = 50)$

- Human-mediated causes of biodiversity loss
- Write a short note on Geostrophic Circulation
 - (c) Write a short note on Stand Still theory of Murray.
 - (d) Write a short note on Lee's Model of Migration
 - (e) Pacific Decadal Oscillation
- Muman mediated cause of busht versity loss.

 Mumans brave played a large role in loss of

 brodiversity due to factoring:

 Paped burning of passi facts emit large

 combon districte leading to ruse in global

 temperature:

 Paped dissolution of carbon disorde in ocean

 cause are any and preature with a plant

moune upe ig wil blenching

Depp Depustration to his roused lives of forest both placed and formal species Discharge of waste water in river and oceans leads to destruction of food 5. eg merenney paraning be of ful in Japan Entraphualian of pands and lakes leaching of naturals making agricultured suil infectile. to recover bodiversity - Aligning green growth with eunemic Adapting remarable source of energy sio engineering turning to reduce

global warming - Reforestration using corporate sound responsibility and CAMPA funder Sustainable diveloped should replace pur evenourie grant · geostropic weulation is the flow and wundstron of gustropic winds around globbe. Tetatreans are sand considered quetropic winds which blove from west east in upper atmosphere

gentropic winds are the result of balaning ait of corroles fare and & & forice due to difference in pressure gradient. - subpolar lune westerly * gestrapic winds guestropic virulation is more prominent in southun hemsephre than northern hemsephere due to absent of land They also apput the weather systems around the world eg: Bring rainfall in Indian subventionet due during winter season in form of vertery disturbances

decaded oscillation is the oreand over a yelle of decade It is deplerent from EL-Nine and La-Nina north ward and extension of temperature effect Ewasia The horseshoe type warming and cooling or water has huge expent on weather

40

waren purod - cause rainfall in Alaska and western part of North Anerica - fortier fulling industry is affect -> Drænght condition is seen in western uld period -> to due to upwelling of rold water, selman Prehing industries is boosted in Austra and North America -> Her Paufall and flood condition o seen on western parific Conclude_ Effects on Economy

tonder th