TEST CODE

FIAS – MGP 2023 (C-1) – Half Length Test | #17

Time Allowed : One and Half Hours समय : डेढ़ घंटे			orum IAS			aximum Ma धेकतम अंक	-
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*Evaluator's Discretion is the marks awarded at the discretion of the evaluator based on your overall impression, on the basis of (but not limited to) your handwriting, presentation, use of diagrams, flowcharts, facts and figures or absolutely anything that he/she liked in your copy. मूल्यांकन कर्त्ता का विवेक अंक, आपकी लिखावट, प्रस्तुति, आरेखों के उपयोग, फ़्लोचार्ट, तथ्यों और आंकड़ों या समग्र रूप किसी अन्य विषय वस्तु, जो मूल्यांकन कर्ता को आपकी कॉपी में पसंद आयी के आधार पर (लेकिन इन्हीं तक सीमित नहीं) पर दिए गए अंक हैं।		For Office V ECN CODE/ ईसीएन कोड :	Use Only / EG/ईजी :	' केवल काय	लिय प्रयोग ह Evaluation मूल्यांकन तिथि	n Date/	

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Parameters	Excellent	Very Good	Good	Average	Poor	Very Poor
Language						
Structure						
Presentation						
Handwriting						
Content						
Attempt						

ADDITIONAL REMARKS



Q.1) What are the suitable conditions for the formation of a tropical cyclone? Also, bring out differences between a tropical and an extra-tropical cyclone. (10 marks, 150 words)

plandmenor cyclones natural a are Tropical defferences pressure ou set resulting disactions consequences cause may aud laud be studied require to retire 2 teus and Suitable conditions for formation Cyclone-Tropical of Low Pressure Core area (1)water to Constant give (2)u enero a (3) Contrins force (due 5 Carter's rotation) to ve it a spin , left arec Norhern hemisphere Lao T.KU ives it a spin anti clockinge spin formation (4) autrent als temperature iclone to give it a particular spu

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Tropical Cyclone Extra-tripical cyclone (1) Originates in Temperate (1) Originates in Tropical areas. area . (23-1" (2) Air fronte owing to (2) Pressure differencet different air masses contris force leads to leads to their formation. its formation. (3) Die on reaching such constraint. (3)No laudmars (4) anate chance (4) Recent anomaly of cyclone not dying on leads to cucloner land. Thue, varied geographical locations and national factors leads to difference in T cyclones of the type formation Feedback (For OFFICE use only) Structure/ area. Presentation an Question Interpretation Content Value Addition Total



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Q.2) Explain the impacts of Himalayas on the climatic condition of the country. (10 marks, 150 words) are the fold mountaine formed Himalayas due to convergent boundaries of Indian have Eurasian plates and and huge role in determining India's climate. COLD IMPACT OF HIMALAYAS TIBETAN CLIMATIC CONDITIONS Plateau ON OF INDIA -: (1) Protect India from the cold waves of Tibetan Plateau. moncom => led to a habitable gaugetie dette and 1-19 - showing importance barren land. hina layas not a change direction after (2) Monsoon winds thereafter hitting himalayas and the county ů raus Indian agriculture is rainfed. = 54% 5 (3) Pressure différencer in Hunalayar and to raw bearing Sea leade Arabian

to more over ludia ⇒ Monsoon is because of himaloyas. (4) states of DP, Uttaraktrand and UT's of J&K and ladakh get theirs peculior climatic conditions due to himaloyas. (5) Himaloyas is also the originating place of many rivers and these mess affect the boal climate of various areas.

Thus, himatayas act as the lifeline of the country and lead to the distinct clinatic zones present in the country bringing in varied vegetation and economic prosperity.

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Q.3) What are seismic waves? How do seismic waves help in understanding of internal structure of the earth? (10 marks, 150 words)

waves are the that evergnes Seismic are emêtted due to niovement the Plater beneater the earth surface propounded in Plate Tectonic Theor ypes of seisnic hlaves P-waves. Primary waves - like sound waver have S- waves - Secondary waves - travel only this uch 2 waves - most 9 R-waves - Surface destructive Seismic Waves helping in understanding internal structure of Earth -: are the INDIRECT METHOD These studying Earth's interior, based on -lle the waves. Erample - Since S-waves travel only theory outer and don't pass thaough splids DUTER CORE is liquid. core zone of s-waver extend pour Schadow 103 2 3 103°N to

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Also, differences in speeds of wover helps und erstanding density differences. - going deeper speed 5 decrearer => high dourt 150 material towards RS-wave shadow 103 and Iron based) zone // P-wave seadow zone fig exploining use , seismic waves in , understanding Garth interior Thus, study of seismic naves give ample information indirectly on the composition of the Carth and thue. giving deeper insight into Earth's origin Feedback for OFFICE use only) Structure/ Presentation Question Interpretation well Content Value Addition Total



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Q.4) Why is Antarctic becoming an area of renewed human interest? Examine the significance of Antarctic bill, 2022 in protecting India's interest in the region. (10 marks, 150 words)

Antarclic is a with each gaining inportance which use of the amicable day and au passing need hour. the T the ů same arcuc ANTARCTICA - becoming an area of renewed human interest -: (1) Recearch objectivesautorctic The pristure and of great scope to study Fig. location r autoretic-globa Earth. ongiu the Commo India's stations Dakenin Gangotie, Maitie and Bharrate. include (2) Abuidance of Moneral deposite -Huge foesil and minerals of unpostance fuel deposite supposedly under the Artarctic ke sheet. (3) Peaceful utilisation of the area is called nations want to eucure and 408 the same. distribution

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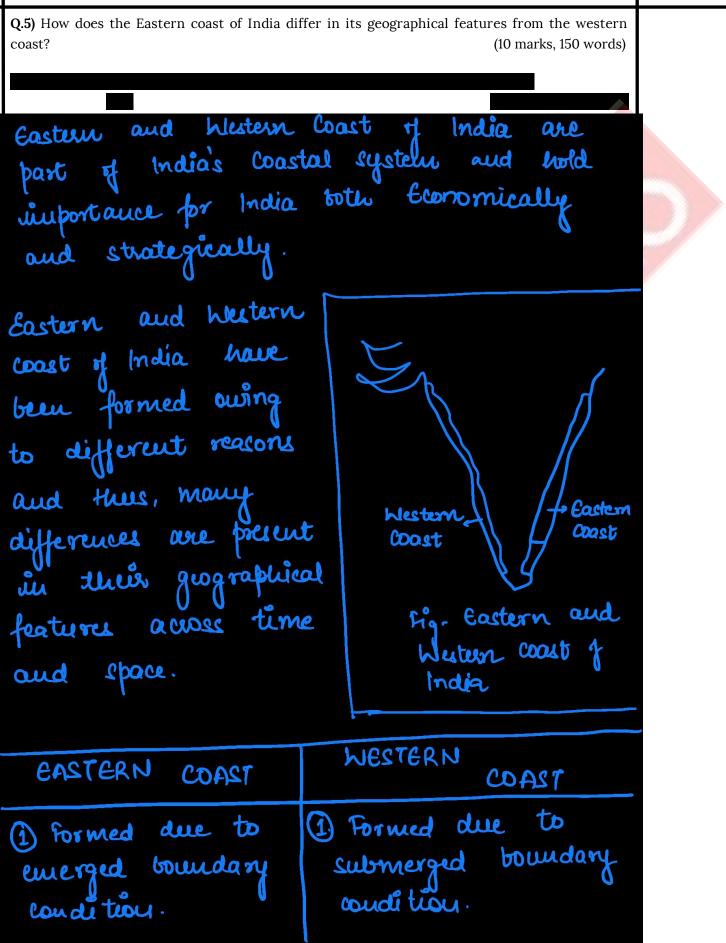
Addition

ANTARCTICA BILL - protecting India's Enferents -2) It amon to usure de-militanzation of illo region alongnith getting it rid of mune or illegal activities (2) Bill seeks to set up Indian Antarchic Authority (IAA) for decision making u related matter. ensure that nuclear tests arent conducted in the region Genure distribution of tourism and fishence resources equitably with India 3) Enhance Indiae Prfar Governance leading to enhanced collaboration & cooperation in scientific and logistics field. 5 Enable India to become eligible for (For OFFICE use only) being a legit & responsible mentles of Antonolica Presentation Treaty System Interpretation Thus, Antarctica holds huge potential for misutilization and countries need to form common ground to ensure effective 2 aur global commons. ule Total



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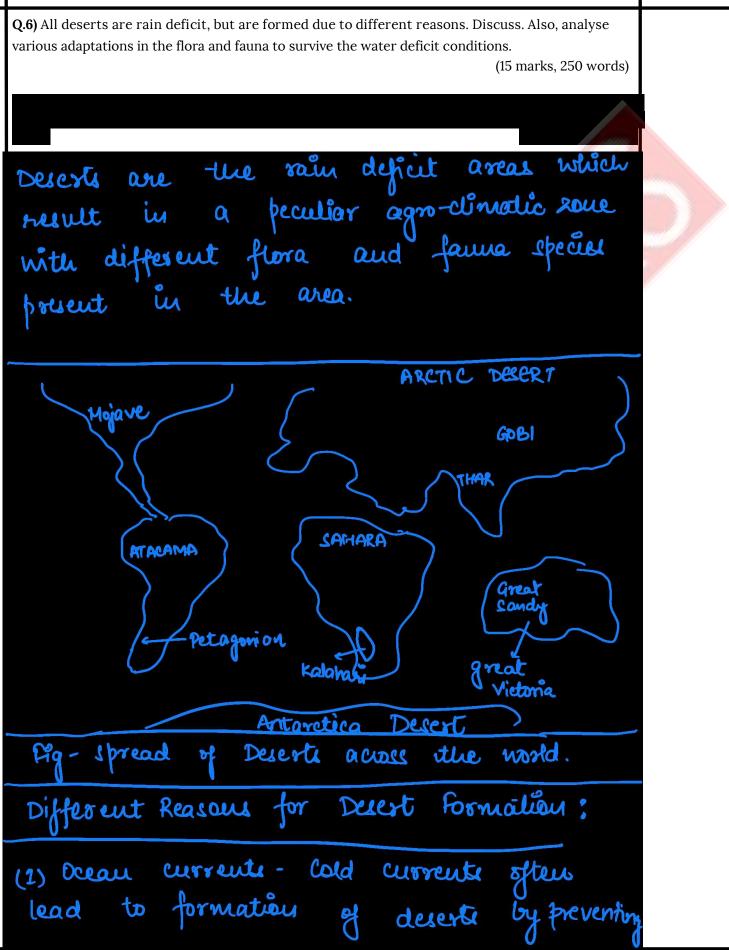
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(2) les number of gaps accoss -une stretch (3) Mostly discontinuous (3) accompanied by
(3) Mostly aucontinue (1) stretch. continuous in noture.
(4) Narrow along (4) Broad at the top the coast. (5) Easy Port Construction (5) Difficult.
Owing to the differences in the geographical nature of Eastern and
peographical nature of the flora faina as hestern coast, the flora faina as well as the economic activities get
deepey influenced.

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rainfall in the particular area. Ex-atacama desert (1) Leeward side of mountain enhibits enough rain in the area leading to desert formation. Ex-Thar desert out leeward side of Aravali Range. (3) Wind pattern blowing offshore - nithin 15°-30° North and South of Equator. Er-Sahara Desert (4) Cold Deserts due to presence in Plan areas. En-Arctic and Antarctic Desert. Adaptations in Flora and Fauna to survive desert conditione (A.) Cold Decest (a) Flora-(c) norte dont die off aud during favourable seasons plants grow. (b) Fauna (î) Presence of fur (ii) Hibernation in Prlan Bears to save Energy (iii) Aestivation (IV) less surface to volume ratio to conserve energy

(B) Hot Desert

- (i) less stonrata ou leaves (a) Flora (ii) growth during wet season (iii) waxy leaves to store water in (iv) ensure least evaporhamption (b) Faung -(i) longer legs to prevent heat to reach body (i) huge water storing capacity Er-Camels. (iii) fast runners, sleek bodies Thus, nature has provided ample adaptations to ensure that 'both flora and fame survive at extreme climatic couditions nothout much difficulty.

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Q.7) Describe the tri-cellular model of global atmospheric circulation. Examine its significance in explaining the world climatic patterns. (15 marks, 250 words)

vodel of global atnosphene explains the meridional Tri-cellular model circulation air across the earth due circulation of dynamic and thermal various to reason H.P polar cul Low Pressure 66-2-Ferrel Cell 230 Hadle Law Pressure ΰ ell H.C K.P 17 p.C. H.P showing the tri-cellular model 5 Fic circulation air Since Equator has low Pressure and 2340 har high pressure, air moves from the while at the equators towards tespics

in the air due equator it rises us convection and through the upper to atmosphere reaches to to the propice descend on the tropice =>/hadley ell Ferrel cell lou Pressure air pour 6672° moves to the upper atnosphere, while 285° ů the surface moves pour high air ou to low Pressure. This cell is pressure continuely Hadley ensure to formed and Polar cell cell - formed due to temperature **utlar** differences laciding to formation of diff pressures. aur in Explaining hlorld Significance climatic patterns (1) Greater insight into the climatelogy and wind movement across 9 Ble The Helped in understanding how Earth (2) maintains its thermal balance. influenced currents are (3) Ocean lore movemends. tuese

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4) helped in firther understanding of upper atmospheric air circulations like Jet streams. (5) Impact of localized events like El Nino, La Ning can be also understood by these. Thus, this model helped in understanding air circulation better thereby ensuring that mankind is able to letter understand and predict natural phenomenon.

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Q.8) Compare the Continental Drift Theory and Plate Tectonic Theory. How does Plate TectonicTheory explain orogenesis and volcanism?(15 marks, 250 words)

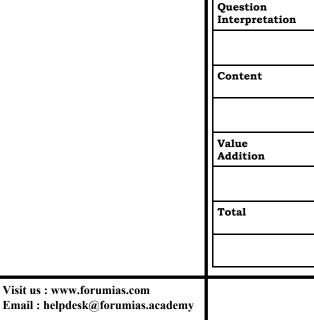
Continental Drift The Tectonice Theory are give deeper usignte continents and been related geomorpholo	into formation of and also the
CONTINENTAL DRIFT	PLATE TECTONICS
(1) St was given by <u>Alfred Wegner</u> in 1912. (2) Hypothesized that a main land <u>PANGACA</u> and water body PANTHALASSA existed. <u>Pangan</u> <u>Pangan</u> <u>Pangan</u> <u>Sondu</u> <u>Panthalase</u> Maland Fig. Carth's Components	(a) Convergent
(3) This huge land mass broke into lauracia	Fig- convectional currente fig- convectional currente forming landmass

the North and in 3) Reasons-Molten Goudwana land. magnia's convectional 3 Reosous for the drift currente leading (a) Pole fleeing force-related to Plate movements to Earthie Robation 4) Took wer pour (b) Tidal force - due to a) convectional Magna gravitational pull of Theory Moon. floor 6) Ocean 4) Evidence spreading theory (a) glacial till Henry Hess. (b) Jigean fit - largely accepted (c) lemming forsil d) gold in trazil 1 africa theory PLATE TECTONIC THEORY enplaining Dottrogenesis nthen continental - continental theories converge, since they are too beyout they dont submerge, but form mountaine Contcon cr-formation of great Maentain himalayas blu Asiatic formation Plate Vaud Europe Plate

PLATE TECTONICS explaining vokanism hihen two plates diverge, the magna under them gusties in, in the form of volcanoes and form volcanoes. Ex-Mt. Fiji, Mt. Alaska etc. Thus, while continental Drift Theory was the stepping stone, Plate Tectonice was the final rail which helped mankind in understanding the privation of various reliefs and geomorphic processes.

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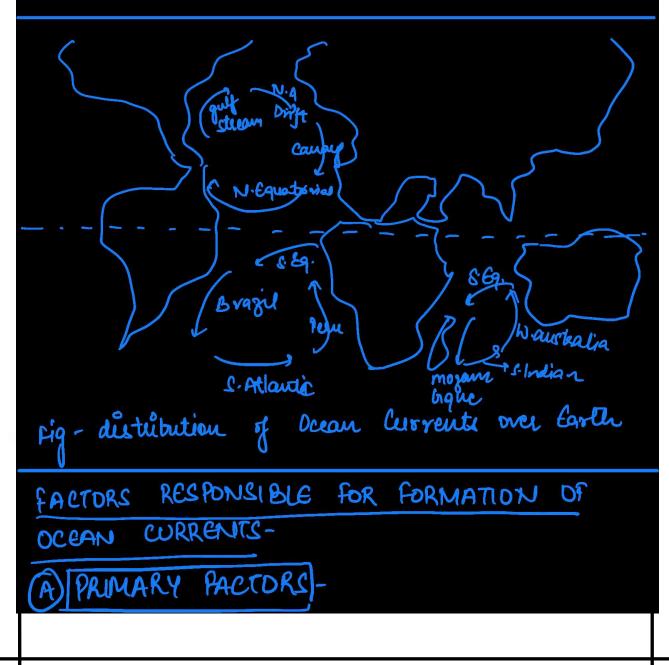
Structure/ Presentation





Q.9) Describe the various factors responsible for formation of ocean currents and discuss their impact on different human activities. (15 marks, 250 words)

Ocean currents are the water novement which help in slifting temperature, energy and recourses from one part of the Easter to the other.



(1) Insolation - Based on the amount of color Energy received by water their movement by 2) Au Cralation - Ex - nourron ninde reverse ocean current's direction 3) landmass - leads to directional change. Ex- Chile lander as changes direction. 4) Condie Force - leads to clocknise currents En Northern henrisphere and anti-clockwise currente in southern hemisphere. Secondary factors Docean satinity - Satine nater has higher density and tender to sink in leading to change in circulation. 2) Climate change Er-Atlantic Meridianal Oceanic current is losing its statility and may decline over some time. IMPACT OF DECAN CURRENTS ON HUMAN ACTIVITIES-A) Economic Impact -(1) Mixing of currente act as fitential Areas (PFA's). Ex-Bauks across USA. Fishing

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(2) Hot water nining leade to defreeging
of porte ⇒ T economic activity
&x-guy stream leads to defreeging of a cuespean Port.
(3) high fish numbers ⇒ T bird defping
near Perre ⇒ oat as fertilizer for erops.
(3) ENVIRONMENTAL
(4) Some ocean currents bring droughts, disnepting
bcal eminonment.
(5) Desert formation occur due to Cold
cerrents the formation occur side in
mid-batitude

Thus, ocean currents play huge me 9 in changing land cape of a geographical area & if cernate change tampers with may lead to potential 1261 livelihood.

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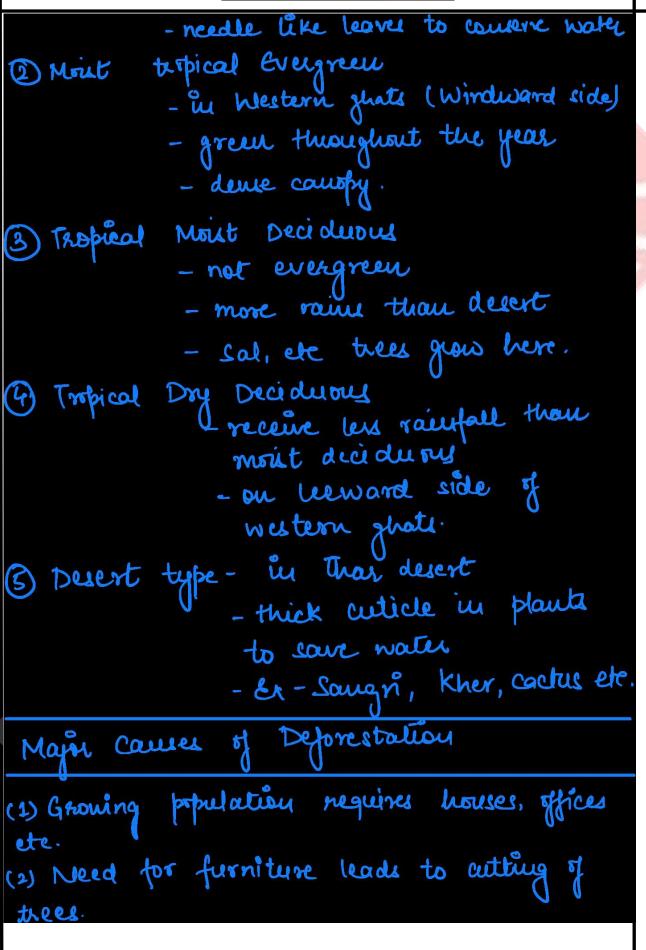
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Q.10) With the help of a map, explain the distribution and characteristic features of different types of forests in India. Highlighting the major causes of deforestation, suggest steps needed to conserve forest resource of the country. (15 marks, 250 words)

The varied climatic conditions in India have given rue to diverse type forests in India from thorn type moist evergreen type . Alpine alpine Desentra , Tropical Mout Deciduru Tropical Moiet Moist Deciduar Tropical Tropical Dry Evergreen Decidence destribution of foreste in India chouing fig characteristic features Alpine - grow ou high altitude - Pir, Pine, chir ŀ



(3) Porest fires due to climate change also reads to large reale deportstation. (4) Need for fuel alio causes deportation. Er- In Brozel, amozni rainforcet are facing threat. (5) Unsustainable living. Er-Paper neguirements STEPS FOR CONSERVATION -: (1) CAMPA funds should be used for apprestation (2) Full fledged efforts to cusure euvironment triumplue over economy (3) REPD + menuberchip chould put onue ou gove, NGOs & individuals to plant more trees. Feedback (For OFFICE use only) (4) World Environment Day should be used Structure/ for promoting awareness Presentation Thus, as suggested in Brundtland Report, Question Interpretation Sustainable development ie the only Content way though which humans can survive Value Addition in antheopocene Total

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