

UPSC

Answer Questions in NOT MORE THAN the Word Limit specified for each in the Parenthesis.
(Specimen Answer Booklet - For Practice Purpose Only)

Ques

-

Ans

What do you understand by theory of continental drift? Discuss prominent evidences supporting it. (100marks)

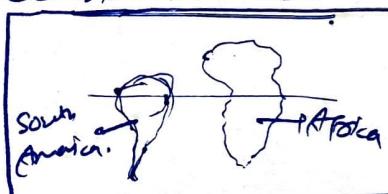
The intro clearly states who proposed the theory, when, and its basic premise (Pangaea, Laurasia, Gondwana). It's a good start.

Evidences supporting this theory :

1

Jig Saw fit

- ↳ The fit of continents like the east coast of South America fits perfectly with west coast of Africa.
- ↳ Bullard Super computer Based Reconstruction also proved it



2. Fossil Evidence

Core concepts are well understood. Examples are appropriate

- ↳ deposits of gold of Brazil and Ghana also have similar properties

3.

Geological Structure

- ↳ Similar mountain ranges, rock strata found in different continents
- ↳ For eg:- mountains of North America and UK are found

Multiple spelling errors and some grammatical slips. Proofreading is essential

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Glacial deposits

- ↳ In Africa, India, Australia and South America have same glacial deposits.
- ↳ They all were part of Groundwater sandstone formation

Limitations:

- ✓ Explain only some evidences but cannot give their physical force
 - ✓ Can't explain forces behind the break up of continents 'Pangaea'
 - ✓ Can't explain the mechanism of drift theory
- The limitations are correctly identified (lack of a viable mechanism/force). The concluding remark rightly points out its foundational role for plate tectonics.

Why are the world's fold mountains located along the margins of continents? Bring out the evidence below on global distribution of fold mountains and the earthquakes & volcanoes. (150 words)

Fold mountain system is formed when two oceanic Continental Plates Move towards each other and then is folding of continental sediment. Some examples of Fold mountains are Himalayan (Sivalik), Ural mountains etc. mostly they found at convergent boundary of Continental-Continental, Continental- Oceanic.

Reason behind located along Margin of Continents

11. Convergent Boundary and Plate Tectonics

- e) fold mountains are formed at Congruent Plate boundaries when there is the interior
 - e) when two plates move towards each other there is folding which form fold mountains

Ld. Campion

Numerous spelling and grammatical errors

-? Collision of plates causes horizontal compression,
folding of sediments and elevation of crust.

L13. Subduction zones

- a) The denser plate i.e. oceanic subducts under lighter plate that is continental
 - b) This causes, folding, faulting and mountain formation

Example of fold mountains on continental margin

1. Himalayan on margin of India - Eurasia plate.

↳ Continental-continental collision

Conciseness, eliminating redundancy, and improving language.

2. Rockies on western north America due to oceanic and continental collision

3. Alps on margin of Eurasian and African Plates.

4. Shown in Figure (1)
Association with earthquakes and volcanoes

1. Seismic Activities

↳ Congruent margins are zones of intense tectonic stress

↳ for eg. Himalaya, Andes are formed due to earthquake

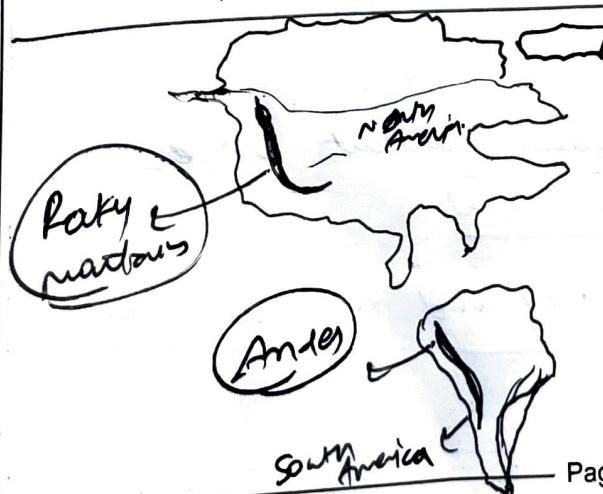
Logically addresses both parts of the question. The map is

2. Volcanos

↳ islands of Japan, mountains of Indonesia, Phillipine, are volcanic mountains

↳ They lies in region of 'Ring of fire'

Good understanding of tectonic processes.



The global distribution of fold mountains is governed by active plate boundaries. This shows that nature can create such complex structures and plays important role in supporting human life on Earth

Links distribution to plate

boundaries. The second

sentence is a bit general and doesn't fully synthesize the core ideas of the question (margins, EQ,

Qn: Major hot deserts in northern hemisphere are located between 20-30° North and on western side of continents. Why? (20 marks)

States the location and

mentions climatic and anthropogenic conditions. "Gathara dercut" is presumably Sahara Desert.

Anthropogenic conditions

are less about the initial reason behind their formation

location and more about

desertification/expansion

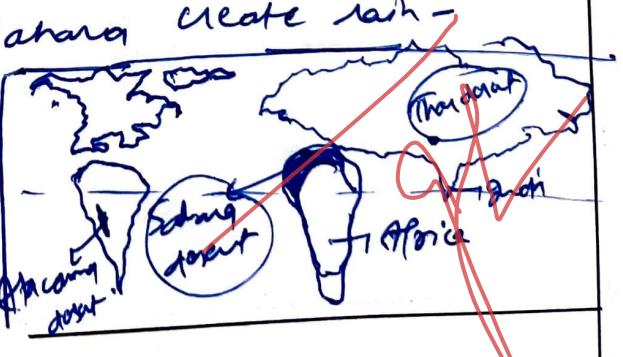
↳ I) Hot and arid currents such as Agulhas, Guyana Stream current are flowing on western coast of north continents. Directly addresses the question, mentions key factors, and provides stats.

↳ II) Rainfall Scanty in areas of west-north of Africa

↳ As Sahara desert lies in high-pressure zone (20-30°) where air descends, warm, dries, low density formation of clouds and rainfall

↳ IV) Rain shadow effect as in Atlas Mountains to the north west of Sahara create rain shadow zone

e.g. Atacama desert of South America.



2

Q2. Anthropogenic activities

The division into climatic

and anthropogenic is fine, but the anthropogenic part

is less relevant to the core question of initial location

Major factual error

regarding ocean currents.

Q2) unsustainable practices such as deforestation,

mining, in forest areas (due to desertification)
eg: That desert in sahara was a green forest.

but due to excessive ~~or exploitation~~ farming,
it turned desert

Focus on: Addressing the "why" of the specific location

with accurate climatic

factors. Distinguish between desert way of Rivers as in causal area

Arab sea is turning into dried water body

and then it will become desert

This is because of high dams and smu

desertification. Severe they fed Arab sea

correction needed on ocean currents

The need of now is to think about our unsustainable activities we cannot change nature's activities

but we can change ours people should

prioritize the sustainable growth green economy

desert and rural activities

for prevent further desert and rural activities

Focuses entirely on anthropogenic desertification, which was not the main thrust of the question (which was about natural location).

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Answers
in the space
given to you
will not be
marked
as correct
and will not
be evaluated.

Ques
Ans
Explain the formation of thousands of islands in Indonesia & Philippines
The formations of thousands of islands in Indonesia and Philippines are due to tectonic activities.
There are 17,500 islands in Indonesia archipelago and about 7,000 islands in Philippines archipelago.

Directly addresses the question, mentions key factors, and provides stats.

Reasons Behind Formation of Islands

↳ 1. Volcanism and island Building

↳ Due to subduction, magma rise and form volcanos

↳ these volcanoes over time cool down and form islands

Correctly identifies the main reasons for island formation.

for eg: 1. Indonesia (highest in the world)
(highest in the world)

2. Phillipine also has many islands

e.g: Mayon, Taal etc.

* Focus on: A conclusion that summarizes the formation process. Drastically improve spelling and grammar.

↳ 2. Tectonic activities

↳ There is subduction of Indo-Australian plate beneath the Eurasian plate

↳ leads to cause of volcanism in islands of Indonesia i.e. Java, Sumatra etc.

↳ Subduction of Philippine Sea Plate and Eurasian Plate

↳ cause volcanism in Cebu, Vilcabaya etc

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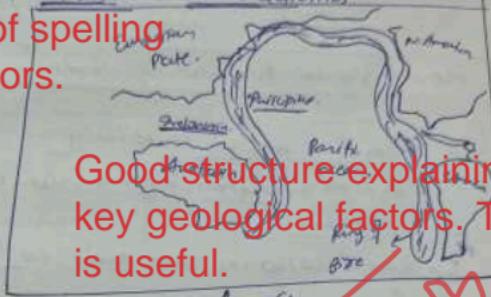
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L2 Pacific Ring of fire

- ↳ Both co-exists lies on Pacific Ring of Fire as shown in figure (1).

- ↳ This creates volcanic and tectonic activities.

Significant number of spelling and grammatical errors.



Good structure explaining the key geological factors. The map is useful.

Figure(1)

L3 Sediment deposition and erosion activities

- ↳ Many rivers drain into Pacific Ocean

↳ Passing through Indonesia and Philippines

- ↳ For eg: Pampanga, Aguila River.

- ↳ They deposit Sediments and form islands

Shifts to geopolitical and

Indonesia and Philippines plays a crucial role in environmental issues, which is but this is more closely with geography.

not directly answering the "formation" question. It's a

forward-looking statement but such as exploitation of natural resources, pollution

etc., which should be addressed to maintain

their beauty

Ques

The Process of desertification does not have climatic boundaries. Justify with examples (150 words).

Ans

Desertification is the process by which an area becomes desert due to soil degradation and decrease in vegetation. This usually occurs in arid, semi-arid and dry areas. That ~~area~~ ~~is~~ are some examples.

Defines desertification and mentions typical climatic zones

but also gives examples of deserts, not desertified areas

Process of desertification does not have climatic boundaries 'because' outside these zones (which is the question's thrust). The intro

1.

L. Anthropogenic activities

L.1. Overgrazing leads to desertification

L.2. Unsustainable development leads to loss of water sources which makes soil dry.

L.3. Deforestation by human leads to desertification for eg:- According to The Economic Times

India lost 11.69% of its primary forests between 2019 - 2024

L.4. Land Misuse can lead to desertification of forest area.

for eg: Cutting of Amazon forests for road connectivity is misuse of land

L.5. Unsustainable farming leads to loss of fertility of soil and turns it into desert

Examples to identify :

L1. Bundelkhand (India)

- ↳ Despite moderate rainfall ; Overgrazing and deforestation led to land degradation.

Logical flow from definition to reasons and strong examples.

* Content: Excellent understanding of the issue and very good, diverse examples. This is a strong answer in terms of content.

L3. Aravali Sea (Central India)

- ↳ For farming zero way of Amudanya and Sardanya diverted.

- ↳ which led to desertification of Aravali sea
- ↳ Lake Puglubine in West Aravali region due to climate change which itself cause of human activities

- ↳ The regions are shown on map in figure (2)

- ↳ Thar desert was once fertile region but turned desert due to human activities



Figure (2)

With increasing population pressure, unsustainable practices, and climate change, the risk of desertification now transcends climatic boundaries. This is becoming a threat to ecosystem and biodiversity of earth. Need of hour is to take strict steps to stop desertification.

Good summary of drivers and impact, and a call to action. Reinforces the "transcends climatic boundaries" idea

Many spelling and grammatical errors.

Focus on: Drastic improvement in spelling and grammar, and conciseness to meet word limits without losing the strong examples.