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Geography

Atmosphere and Climate

I. Answer the following:

1. What is humidity, and why is it important for weather?

Humidity is the amount of water vapour in the air. It affects cloud formation, precipitation and comfort levels. High humidity leads to rain and moist conditions while low humidity causes dry weather.

2. "Oxygen is the most important element found on Earth and makes up 21% of the atmosphere. As a compound,

2. "Oxygen plays a vital role in supporting life and protecting the Earth." Explain its importance in the atmosphere.

Oxygen is the most important element found on Earth and makes up 21% of the atmosphere. As a compound, oxygen is present in water, plants, animals, and much of solid material on Earth.

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a) Thousands of compounds contain oxygen along with carbon, hydrogen, and other elements.

b) Oxygen gas forms the ozone layer that protects Earth from harmful solar radiation.

c) Oxygen(O_2) is essential for life, helps destroy harmful bacteria in our bodies, and maintain health.

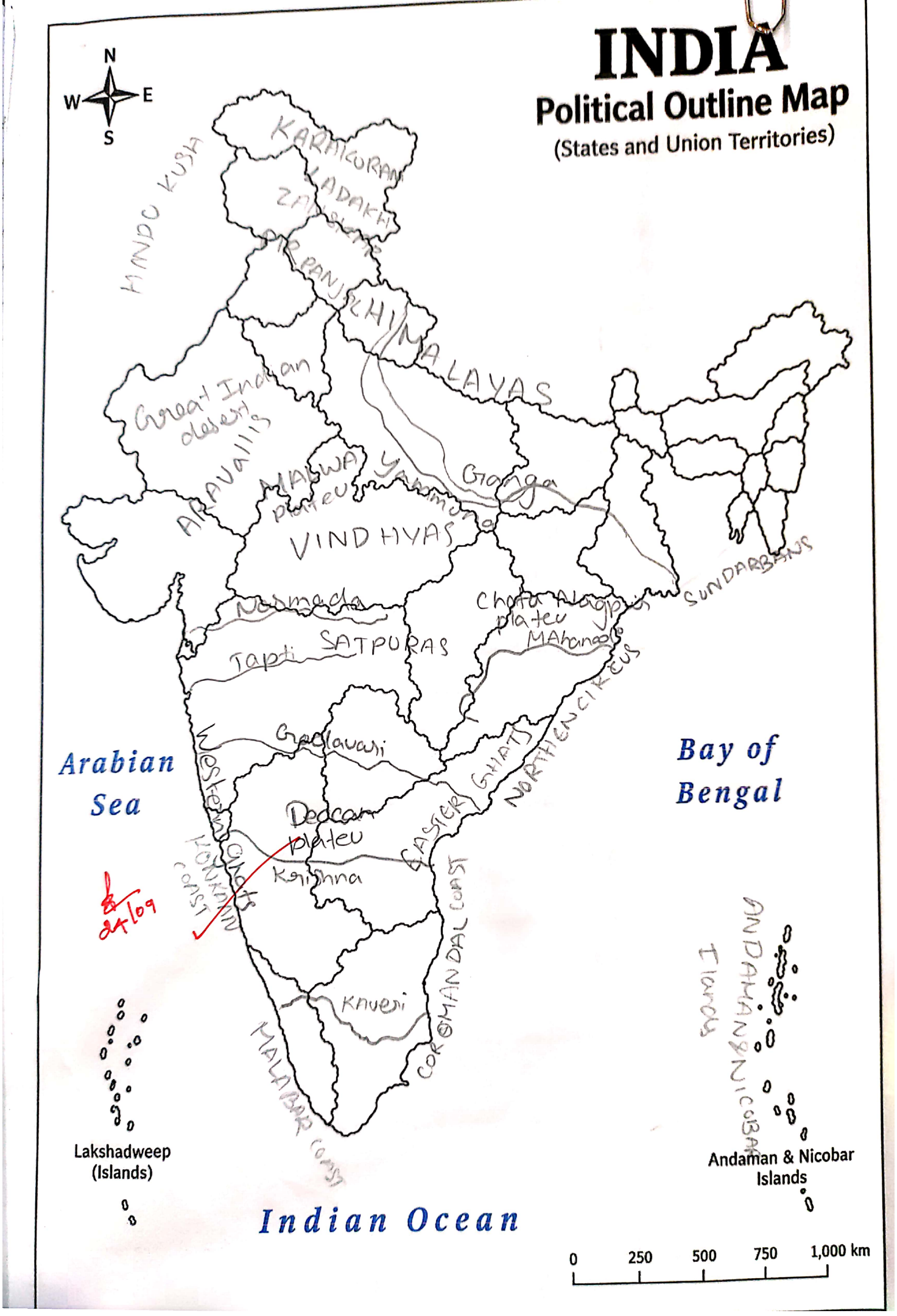
The monsoon is considered the lifeline of the Indian economy." Justify the statement

* The monsoon provides most of the annual rainfall, which is essential for agriculture especially in rain-fed regions.

* Good rainfall ensures high crop yields, stable food supply and rural employment

* Weak or delayed monsoons can cause droughts, crop failure and economic loss showing how crucial monsoon rains are

Good


INDIA
Political Outline Map
(States and Union Territories)
N
W
E
S
KARAKORAM
LADAKH
HINDU KUSH
PANJAB HIMALAYAS
Great Indian desert
ARAVALLIS
MALWA plateau
Yamuna
Ganga
VINDHYAS
SUNDARBANS
Narmada
Chota Nagpur plateau
Mahanadi
Tapti
SATPURAS
NORTHERN CIRCARS
Godavari
Arabian Sea
Bay of Bengal
WESTERN GHATS
EASTERN GHATS
Deccan plateau
Krishna
Kaveri
CORAMANDAL COAST
MALABAR COAST
ANDAMAN & NICOBAR
Lakshadweep (Islands)
Andaman & Nicobar Islands
Indian Ocean
0
250
500
750
1,000 km

25/10/23 No.

Geography

Oceans and Life

I. Answer The Following:

1. What is meant by oceanic relief? How are they formed?

Ocean relief refers to diverse rugged topography beneth ocean water took over millions of years to form. Ocean relief formed due to continous tectonic plates movements, volcanic eruption, erosions and deposition.

2. Highlight any two features of the tides.

The important features of tides are:

(i) Tides are periodic rise and fall of sea water.

(ii) Tides occur at constant intervals twice a day.

3. Describe how the ocean floor is divided into distinct divisions.

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The ocean floor is divided into four divisions

(i) Continental shelf: It is the seaward extension of the continent extending from the coast to open seas. It is also known as the submerged shallow border of a continent. The continental shelf is mainly used for fishing and natural resources.

(ii) Continental slope: The continental slope connects the slope to the deep oceanic surface. It is characterized with steep rapid descending slope.

(iii) Abyssal plains: The deep sea plains inside the ocean are abyssal plains. The plains are deep ocean floors with the cover of sediments.

(iv) Oceanic deeps: The ocean deeps are the deepest part of the oceanic surface. A long narrow steep sided depression on the ocean floor is called trench. They are formed mainly due to down faulting or down folding of the earth crust.

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