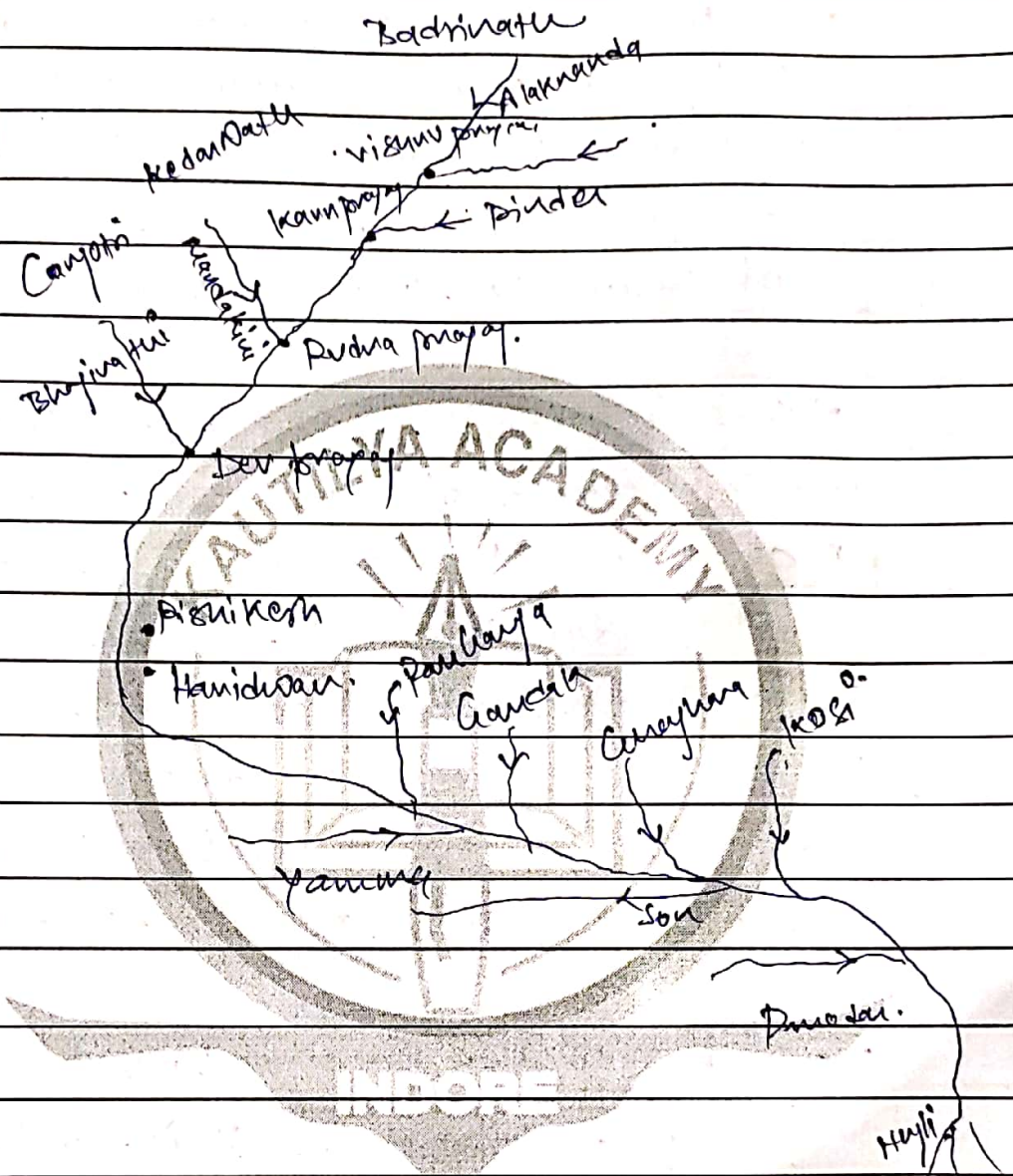




J	B.	<p>Apogee - Farthest position of Earth from sun. Perigee - nearest position of Earth w.r.t. sun.</p>
□	□	<ul style="list-style-type: none"> This happens due to elliptical movement of Earth around sun.
□	□	
I	F	<ul style="list-style-type: none"> largest fresh water lake of India. located in Orissa near Bhubaneswar
□	□	
I	D	<ul style="list-style-type: none"> NIDM - formed as per Disaster management Act 2005.
□	□	<ul style="list-style-type: none"> To provide institutional support to "National Disaster Management Authority" (NDMA)
□	□	
I	L	<ul style="list-style-type: none"> various crops comes under Agricultural Export like wheat, rice, spices, raw cotton
□	□	<ul style="list-style-type: none"> After Independence, India has greatly increased its exports in Agriculture.
□	□	
J	K	<p>ASSAI - Ensures food safety & security in India, by PDS (public distribution system) & stock management (to utilize food grains)</p>



3 3



- Ganga is the main source of water in Punjab & Northern plains. It is an antecedent river.
- Right bank tributaries → Yamuna, Son & Damodar.
- Left bank tributaries → Gandak, Ghaghara, Kosi.



<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>	• Though, being historically so enriched, but still poor population / labour intensive population still belong to this region only.
<input type="checkbox"/>	<input type="checkbox"/>	• This region has vast potential to reap Green Revolution II as soil is very fertile & cheap labour to work on field is also available.
<input type="checkbox"/>	<input type="checkbox"/>	• Kosi, one of tributary of Ganga, is continuously changing its course because of wider area in Bihar came under flood-prone & probably every year flood in Kosi river has devastating effect in Bihar. Reason is Kosi river with itself bring lots of sediments / silt which gets deposited in course of river & flooding takes place.
<input type="checkbox"/>	<input type="checkbox"/>	→ Ganga river system is largest river system in India but still under developed in terms of prosperity. Govt. should look into true potential & should frame schemes & policies accordingly.



3	D.	<p>Ground water — water which when deposited inside the aquifers beneath</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>Earth surface through porous & permeable soil, is called as Ground water.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>• India consumed 70% of GW & As</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>per NITI Aayog Composite Water Ngrm Index, 21 cities will go out of water by</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>end of 2020.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>• This condition has arisen because,</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>1) people having misconception that ground water is unlimited & can be</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>used forever with same quantity.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>2) Irrigation in peninsular areas mainly</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>in Western & central parts greatly depends on Ground water because</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>in peninsular area, tank & canals is not easy to construct & maintain.</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>Therefore, people greatly depends upon ground water resources. Benefits</p>
<input type="checkbox"/>	<input type="checkbox"/>	<p>of it is — No evaporation losses, No seepage losses from canals, No need</p>



of network channel. Therefore, Approx.

65-70% of irrigation is done by
Ground water in N.P. also - mainly in
Malwa region.

• But in recent years, dependency on
ground water is greatly increases -
reasons are -

1) Urbanization.

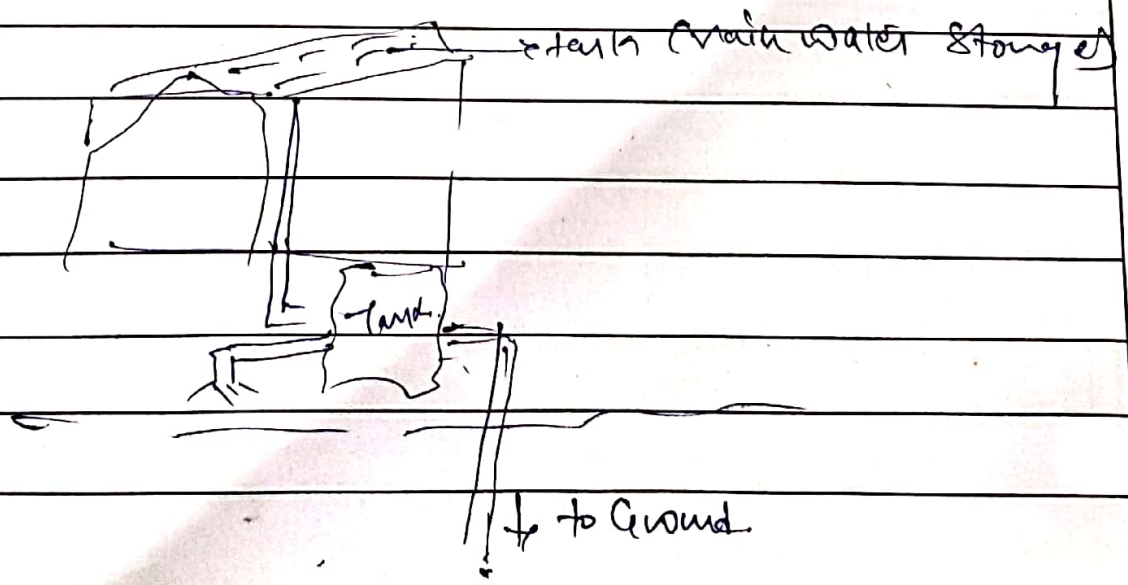
2) Demand more than supply.

3) Polluted surface water.

• Therefore, in order to maintain
sustainability it is required to utilize
ground water efficiently.

• Ground water needs to be conserved
by Rain water harvesting.

rain water storage





<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	• During British period, three major land settlements are used -
<input type="checkbox"/>	<input type="checkbox"/>	1) Zamindari system
<input type="checkbox"/>	<input type="checkbox"/>	2) Ryotwari system
<input type="checkbox"/>	<input type="checkbox"/>	3) Mahalwari system
<input type="checkbox"/>	<input type="checkbox"/>	In Zamindari system, Zamindars was allocated for particular fragment- ation of land i.e. he is the ultimate authority to pay taxes to Govt. & also to earn his livelihood. In this system, hardly 1/10th part was left to farmer after all deduction - suppressed the condition of farmers in countries.
<input type="checkbox"/>	<input type="checkbox"/>	After independence, Govt. has certain thoughts regarding improvement of land settlement & therefore major
<input type="checkbox"/>	<input type="checkbox"/>	land reforms took place. Its need is -
<input type="checkbox"/>	<input type="checkbox"/>	1) unbalancing in distr. of land.
<input type="checkbox"/>	<input type="checkbox"/>	2) Poor became more poor & rich became richer with such kind of land distr.
<input type="checkbox"/>	<input type="checkbox"/>	3) uneven in Area of land allocated.
<input type="checkbox"/>	<input type="checkbox"/>	



2	A	
		<p>Litho</p>
		<p>Lithosphere = oceanic crust + continental crust</p>
		<p>Upper mantle</p>
		<p>This lithosphere flows over semi-molten or plastic type Asthenosphere in which convection cells develop.</p>
		<p>To know the internal structure of Earth, Primary & secondary waves are passed.</p>
		<p>These waves have following properties -</p>
		<p>P wave → passes through ρ, L, G.</p>
		<p>S wave → passes through ρ, G.</p>
		<p>Speed of waves → $\rho > L > G$.</p>
		<p>When these waves are passed as shown in figure, their speed increases in lithosphere as it is solid - decreases in Asthenosphere but S wave passing that means it is a semi molten solid - then speed increases - then in outer layer of core, as it is rigid, P wave passes but S wave cannot.</p>
		<p>then at core, speed of both waves tremendously increases - hence highest density of core.</p>



<input type="checkbox"/>	<input type="checkbox"/>	2	<input type="checkbox"/>	<input type="checkbox"/>	Methods of Efficient irrigation system -
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	1) Use of Vermicompost :-
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- It is a mixture of earthworm with decomposed food & vegetables.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- Increase the humus in soil & also fertility.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- Aerate & affect the den. of roots also.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- Increase moisture retentivity capacity of soil.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	2) In canal irrigation, problem of seepage can be removed by lining the canal.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	3) Dry-farming - in areas of water deficit
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	4) Development of Agro-climatic zones by which -
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- Productivity can be increased by only growing crops suitable for that particular soil & climate.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- Tech. Intervention can also be utilized.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	- Preparing farmer to produce with profitability & also provide him other s
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	tools.
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	
<input type="checkbox"/>	<input type="checkbox"/>		<input type="checkbox"/>	<input type="checkbox"/>	



2	G.	
		Petroleum → great formation takes place
		due to decomposition of plants
		& animals inside earth under high temp
		& pressure when submergence of that
		area took place.
		• Bombay high — storages of petroleum
		in India,
		• Petroleum reserves also found from
		Alia bet — as near the mouth of
		Hamada river in Gulf of cambay.
		• This region of coast of Guj & Maharashtra
		are rich in petroleum reserves because
		where Indian plate was moving towards
		north, the submergence of western
		coast of Guj took place several times
		due to which animals & plants gets
		decomposed under high temp. & pressure
		for million years — today's comes
		out in form of petroleum.