CLASS: X

SUB: GEOGRAPHY - CHAPTER: 1: Resources and Development

<u>Assignment</u>

Please write the following questions in your note book: 8, 12, 18, 28, 35, 38, 42, 43 & 55.

Summary of the Lesson

No.	Question	Marks
1	What do you understand by the term resource?	1
	Ans . Everything available in our environment which can be used to satisfy our needs,	
	provided, it is technologically accessible, economically feasible and culturally acceptable	
	can be termed as 'Resource'.	
2	What does the process of transformation of things available in our environment	2
	involve? State the role of human beings to accelerate their economic development.	
	Ans . A) The process of transformation of things available in our environment involves	
	an inter-dependent relationship between nature, technology and institutions.	
	B) Human beings interact with nature through technology and create institutions to	
	accelerate their economic development.	
3	Do you think that resources are free gifts of nature? Justify the statement.	3
	Ans. 1) They are not. Resources are a function of human activities.	
	2) Human beings themselves are essential components of resources.	
	3) They transform material available in our environment into resources and use them.	
4	Give a detailed classification of resources.	2
	OR	marks
	Distinguish between renewable and non-renewable resources. (CBSE, S.A1, 2015)	of
	Ans. Resources can be classified in the following way:	each
	(a) On the basis of origin-biotic and abiotic	
	(b) On the basis of exhaustibility-renewable and non-renewable	
	(c) On the basis of ownership-Individual, community, national and international.	
	(d) On the basis of status of development- Potential, developed, stock and reserves	
5	Classify the resources on the basis of: a) Meaning b) 2 examples	4
	(Any 4)	
	A} Biotic resources and Abiotic resources	
	B} Renewable and Non-renewable resource	
	C} Individual resources and Community owned resources.	
	D) National resources and International resources	
	E} Potential resources and Developed resources	
6	Briefly explain the term Stock Resources with the help of examples.	4
7	What are Reserve Resources? Explain with examples.	4
8	State the major problems caused due to indiscriminate use of resources	3 / 5
	by human beings. (CBSE, S.A1, 2011) and (CBSE, S.A1, 2015)	
	Ans. Following problems are caused:	
	1. Depletion of resources for satisfying the greed of few individuals.	
	2. Accumulation of resources in few hands, which in turn, divided the society into	
	two segments i.e. haves and have nots or rich and poor.	

			nas led to global ecological crises such n, environmental pollution and land	
9	 Why is resource planning essential for sustainable existence of all forms of life? Ans. 1. An equitable distribution of resources has become essential for a sustained quality of life and global peace. 2. If the present trend of resource depletion by a few individuals and countries continues, the future of our planet is in danger. 3. Resource planning is essential for sustainable existence of all forms of life. Sustainable existence is a component of sustainable development. 			3
10	What does the term Sustainable development mean? Ans. Sustainable economic development means development should take place without damaging the environment and development in the present should not compromise with the needs of the future generations.			1
11	How do regions diffe states to show the rea	•	resources? Give examples from four	5
	Regions/ States	Rich in	Poor / Deficient in	
	Jharkhand, Chhattisgarh and Madhya Pradesh	Minerals and coal deposits		
	Arunachal Pradesh	Abundance of water resources	Lacks infrastructural development	
	Rajasthan	Well endowed with solar and wind energy	Lacks water resources	
	Cold desert of Ladakh	Rich cultural heritage	Deficient in water, infrastructure and some vital minerals.	
	Therefore, there is a levels.	need for balanced resource a	at the national, state, regional and local	
12	Ans. It involves the fall involves surveying measurement of the range in Endowed with appropries ources development c) Matching resource Overall national development.	I inventory of resources ac , mapping and qualitative ar esources. ing structure: priate technology, skill and nt plans. te development plans with elopment plans.	eross the regions of the country: and quantitative estimation and institutional set up for implementing	3
13	How has colonization established relation between technological development and institutional changes? Ans. 1. The history of colonisation reveals that rich resources in colonies were the main attractions for the foreign invaders. 2. It was primarily the higher level of technological development of the colonising countries that helped them to exploit resources of other regions and establish their supremacy over the colonies. 3. Resources can contribute to development only when they are accompanied by appropriate technological development and institutional changes.			3
14			articular in India? Hality of human resources and the	2
15			umption and over-utilization of	1

	resources in India? Ans. Socio-economic and environmental problems. What was Gandhiji's concern about resource conservation? Ans. Gandhiji believed that: a) There is enough for everybody's need and not for anybody's greed. b) He placed the greedy and selfish individuals and exploitative nature of modern technology as the root cause for resource depletion at the global level. c) He was against mass production and wanted to replace it with the production by the masses.				
16				3	
17	'Land is a natural resource of utmost importance'. Justify the statement. Ans: We live on land, we perform our economic activities on land and we use it in different ways with careful planning.				
18	Explain the variety of relief features in India with reference to percentage and uses. Ans:				
	Relief feature	%	Uses		
	Plains Mountains	43	Provides facilities for agriculture and industry. ensure perennial flow of son\me rivers, provide facilities		
	Plateau	27	for tourism and ecological aspects. possesses rich reserves of minerals, fossil fuels and forests.		
20	II] Fallow land- III. Other uncultiva) Permanen b) Land unde c) Culturable B Difference bet Grossed Cropped Net Sown Area: Agrown in Kharif s	a) Curn ag b) Oth agric vated la t pastur er misce e wastel tween: Area so season.	Area sown more than once in an agricultural year plus net sown area is known as gross cropped area. wn under one crop in one agricultural season. Example rice	5	
20	Mention the physical and human factors that determine the use of land. (2+2) Ans. A) Physical factors: Topography, climate and soil types. B) Human factors: Population density, technological capability and culture & tradition.			3	
21.	cattle population Ans. 1. Agricultu	n? Wha ral resic a) Trer	nent pastures has declined. How are we able to feed our huge it are the consequences of it? It will provide fodder for our huge cattle population. In mendous pressure on agricultural land mal products and milk production will decline.	3	
22.	states that have high proportion Ans.	less tha of Net	nt have over 80% of total area under NSA. Also name the in 10% of land under NSA. Find out reasons for low and Sown Area in these states. 2+2	4	
	Two states that have Punjab and Haryana 1. Gentle slope				

	over 80% of total a	0,000		2. Fertile soil	
		area			
	under NSA			3. Abundance of water	
	Sates that have les		nal Pradesh,	1. Unfavourable	
	than 10% of land		n, Manipur and	topography	
	under NSA	Andama	n and Nicobar	2. Unfavourable climate	
		Islands		3. Dense forests	
	-	•		,	
23.	What percentage of	f land in India	is under forest? V	Why is it essential to increase	3
	area under forests?				
	Ans. 22.57%.				
	Reasons: a) Essentia	l for maintenan	ce of the ecologica	l balance. b) Livelihood of	
	millions of people w		_	· · · · · · · · · · · · · · · · · · ·	
24.			-	on-agricultural uses.	3
	A) Wasteland- R		_	ion agricultur asest	Č
		-	ment, roads, railwa	avs industry	
25.	What has resulted i				2
25.				vithout taking appropriate	2
	measures to conserve				
	B)It has serious repe	rcussions on so	ciety and the enviro	onment.	
				自己有关。 第二章是是是一种"是	
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				The state of the s	
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	A STATE OF THE PARTY OF THE PAR	The second second			
	tion & the same of		un.		
	Land Day	Villagia decisione		Defendation	
26.	Land Deg		and degradation?	Deforestation Also name human activities that	3
20.	have contributed to			Also name numan activities that	3
		0		degradation of land but have also	
	aggravated the pace		-	_	
	1		C		
		_	and degradation- i	Deforestation, over grazing,	
27	mining and quarrying etc.				
27.	Explain the degraded land or wasteland in India with the help of examples. Ans. 1. At present there are about 130 million hectares of degraded land in India.				
	_				
				ory of forest degraded area.	
	3. About 56% of it is				
	4. Rest of the land is				
28.	Explain the reasons for land degradation with the help of examples.				5
	Ans.		T .		
		States/Areas	Analysis		
Ī		Jharkhand,	Mining sites are a	abandoned after excavation work	
		,	_	II II	
	<u> </u>	Chhattisgarh,	_	ng deep scars and traces of over-	
		,	_	ng deep scars and traces of over-	
		Chhattisgarh,	is complete leaving burdening.	ng deep scars and traces of over- e to mining in these states have	
		Chhattisgarh, Madhya	is complete leaving burdening. deforestation due	e to mining in these states have	
		Chhattisgarh, Madhya Pradesh and	is complete leaving burdening.	e to mining in these states have	
		Chhattisgarh, Madhya Pradesh and Orissa	is complete leaving burdening. deforestation du caused severe lan	e to mining in these states have d degradation.	
	2.Overgrazing	Chhattisgarh, Madhya Pradesh and Orissa Gujarat,	is complete leaving burdening. deforestation ducaused severe landovergrazing is on	e to mining in these states have	
	2.Overgrazing	Chhattisgarh, Madhya Pradesh and Orissa Gujarat, Rajasthan,	is complete leaving burdening. deforestation du caused severe lan	e to mining in these states have d degradation.	
	2.Overgrazing	Chhattisgarh, Madhya Pradesh and Orissa Gujarat, Rajasthan, Madhya	is complete leaving burdening. deforestation ducaused severe landovergrazing is on	e to mining in these states have d degradation.	
	2.Overgrazing	Chhattisgarh, Madhya Pradesh and Orissa Gujarat, Rajasthan, Madhya Pradesh and	is complete leaving burdening. deforestation ducaused severe landovergrazing is on	e to mining in these states have d degradation.	
	2.Overgrazing	Chhattisgarh, Madhya Pradesh and Orissa Gujarat, Rajasthan, Madhya Pradesh and Maharashtra	is complete leaving burdening. deforestation ducaused severe landovergrazing is on degradation.	e to mining in these states have d degradation. e of the main reasons for land	
	2.Overgrazing 3.Over	Chhattisgarh, Madhya Pradesh and Orissa Gujarat, Rajasthan, Madhya Pradesh and	is complete leaving burdening. deforestation ducaused severe landovergrazing is on degradation.	e to mining in these states have d degradation.	

		western Uttar	salinity and alkalinity in the soil.	
		Pradesh		
	4.Mineral		The mineral processing like grinding of limestone	
	Processing		for cement industry and calcite and soapstone for	
			ceramic industry generate huge quantity of dust in	
			the atmosphere. It retards the process of	
			infiltration of water into the soil after it settles	
			down on the land.	
	5.Industrial		In recent years, industrial effluents as waste have	
	effluents		become a major source of land and water pollution	
			in many parts of the country.	
29.	Explain the ways t	to solve the prob	olem of land degradation.	3
	Ans. There are man		-	
	a) Afforestation	on and proper ma	nagement of grazing can help to some extent. (1)	
	b) Planting of	shelter belts of	plants, control on over grazing, stabilization of sand	
			shes are some of the methods to check land	
	degradation	-		
	c) Proper man	nagement of was	ste lands, control of mining activities, proper	
	_	_	dustrial effluents and wastes after treatment can	
	_	-	dation in industrial and suburban areas. (1)	
30.			ural resource. What does it consist of? (1+2)	3
			wable natural resource. It is the medium of plant	
		_	of living organisms on earth.	
		• -	d inorganic material.	
31.			contribute to the formation of soil.	2
01.	_		, climate, vegetation and other forms of life and time	_
	are important factor		,	
32.	•		contribute to the formation of soil.	2
			as change in temperature, action of running water,	_
	wind and glaciers, a			
33.			for the classification of different types of soils in	3
	India.	010 1 00 p 01101010	102 010 010552110001011 02 021101 01 0	
		ness, texture, age.	chemical and physical properties.	
34.			e contributed to the development of various types	2
	of soils of India.		y P	
		eatures, landforn	ns, climatic realms and vegetation types.	
35.			important soil of India. Write any three	5
	characteristics of t	• •	-	
		v 1	and in the river deltas of the eastern coast? Give	
		ain features of tl		
	Ans.			
	A) Alluvial soils.			
	· /	sist of various pro	pportions of sand, silt & clay.	
		-	river valley, soil particles appear some what bigger	
	in size.			
		e size of their gra	ins or components they are also known as old	
	_	_	al (Khadar) soils.	
36.			ial soils are found in India.	3
	Ans. They are foun			-
	1) The entire northe			
	, '	-	jarat through a narrow corridor.	
	· ·		in the deltas of the Mahanadi, the Godavari,	
	_ ·		s also contain these soils.	
37.			alluvial soils found in the Piedmont plains. Give	
57.	examples.	colligates of the (ma, and boing round in the recumbin plants. Offe	3
	campics.			<i>J</i>

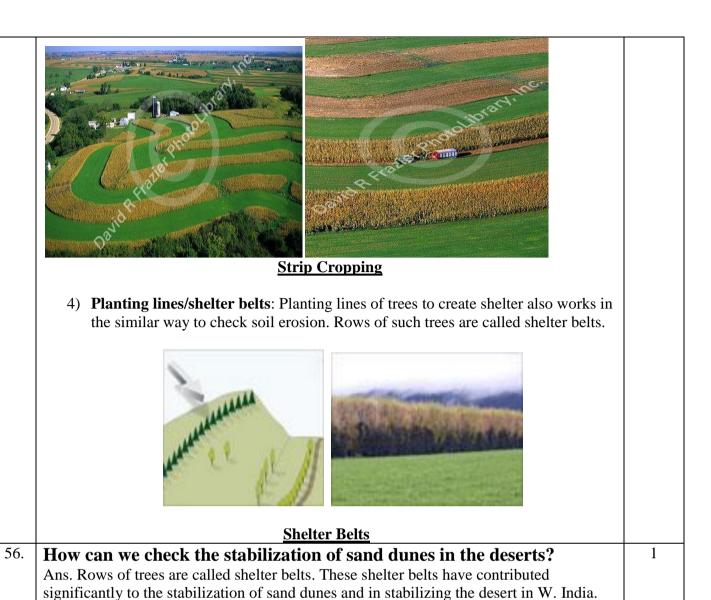
(Piedmont plain: An area of land formed or lying at the foot of a mountain or mountain range. Piedmont is sometimes referred to as a plateau because it is high and mostly flat.) **Piedmont Plains** Ans. A) In the upper reaches of the river valley i.e. near the place of break of slope, the soils are coarse. B) Such soils are more common in piedmont plains such as Duars, Chos and Terai. 38. Differentiate between Khadar and Bhangar soils. 5 Ans. Bhangar soils Khadar soils Basis Newer deposition of alluvium. 1. Old/Newer Older deposition of alluvium 2. Concentration of Less concentration of kanker Higher concentration of kanker kanker nodules nodules nodules 3. Particles It has more fine particles. It has less fine particles. 4. Fertility It is more fertile. It is less fertile. 39. Name the minerals that are found in alluvial soils. Also state the crops that are 3 ideally grown in alluvial soils.(2+2) Ans. I) Adequate proportion of potash, phosphoric acid and lime. II) Ideal for the growth of sugarcane, paddy, wheat and other cereal and pulse crops. 40. a) What is the implication of alluvial soils having high fertility? (2) Ans. Due to its high fertility, regions of alluvial soils are intensively cultivated and 3 densely populated. b) How can alluvial soils in drier areas be made productive? (1) Ans. Soils in the drier areas are more alkaline and can be productive after proper treatment and irrigation. 41. Explain Black soil on the basis of the following: 5 Ans. a) **Different name**: Regur soil or black cotton soil (1) b) **Crop grown**: Ideal for growing cotton (1) c) Important factor for the formation: Climatic condition along with the parent rock material. (1) d) **Distribution**: Typical of the Deccan trap (Basalt) region spread over northwest Deccan plateau and is made up of lava flows. They cover the plateaus of Maharashtra, Saurashtra, Malwa, Madhya Pradesh and Chhattisgarh and extend in the south east direction along the Godavari and the Krishna valleys. (2) e) What are they made up of?: The black soils are made up of extremely fine i.e. clayey material. (1) 42. Explain the important characteristics of Black soils. 5 Ans. 1) They are well-known for their capacity to hold moisture. 2) They are rich in soil nutrients, such as calcium, carbonate, magnesium, potash and lime. 3) These soils are generally poor in phosphoric contents. 4) They develop deep cracks during hot weather, which helps in the proper aeration of the soil. 5) These soils are sticky when wet and difficult to work on unless tilled immediately

	after the first shower or during the pre-monsoon period.	
43.	Explain the red and yellow soils on the basis of the following:	3
	Ans. I) Where are they developed? – Red soil develops on crystalline igneous rocks in	
	areas of low rainfall in the eastern and southern parts of the Deccan plateau.	
	II) Distribution: Red and Yellow soils are also found in parts of Orissa, Chhattisgarh,	
	southern parts of the middle Ganga plain and along the piedmont zone of the W. Ghats.	
44.	Why does the red soil appear reddish and yellow in colour?	1
	Ans. These soils develop a reddish colour due to diffusion of iron in crystalline and	
	metamorphic rocks. It looks yellow when it occurs in a hydrated form.	
45.	Explain laterite soils on the basis of the following:	5
	i) Derivation of the term : Laterite has been derived from the Latin word 'later'	
	which means brick.	
	ii) Areas of development: The laterite soil develops in areas with high	
	temperature and heavy rainfall.	
	iii) Reason for development : This is the result of intense leaching due to heavy	
	rain.	
	iv) Humus content : Humus content of the soil is low because of the micro	
	organisms, particularly the decomposers, like bacteria, get destroyed due to	
	high temperature.	
	v) How can the laterite soil be made suitable for cultivation?- Laterite soils	
	are suitable for cultivation with adequate doses of manures and fertilizers.	
	vi) Distribution (main states)- Mainly found in Karnataka, Kerala, Tamil Nadu,	
	Madhya Pradesh and the hilly areas of Orissa and Assam.	
46.	In which states and for what crops laterite soils have become very productive?	
	Ans. After adopting appropriate soil conservation techniques particularly in the hilly	3
	areas of Karnataka, Kerala and Tamil Nadu, it's useful for growing tea and coffee.	
47.	In which states Red laterite soils are more suitable for crops like cashew nut?	
	Ans. Red laterite soils in Tamil Nadu, Andhra Pradesh and Kerala are more suitable for	1
	crops like cashew nut.	
48.	Describe arid soils on the basis of the following: (Any three points)	3
	Ans. a) Colour : Arid soils range from red to brown.	
	b) Texture and nature - They are generally sandy in texture and saline in nature.	
	c) Salt content: In some areas the salt content is very high.	
	d) Utility : Common salt is obtained by evaporating the water.	
49.	Describe the lower horizon and bottom horizon of arid soils.	3
	Ans. I) Lower horizons : The lower horizons of the soils are occupied by Kankar	
	because of the increasing calcium content downwards.	
	II) Bottom Horizon : The Kankar horizons restrict the infiltration of water. After proper	
	irrigation these soils become cultivable as has been in the case of western Rajasthan.	
50.	Explain the forest soils on the basis of the following: (1+2)	3
	i) Areas- Found in the hilly and mountainous areas where sufficient rain forests are	
	available.	
	ii) Soil Texture: The soils texture varies according to the mountain environment where	
	they are formed. They are loamy and silty on valley sides and coarse grained on the	
	upper slopes.	
51.	Explain the characteristics of forest soils in snow covered areas and the lower parts	3
	of the valleys.	
	Ans. a) In the snow covered areas of Himalayas, these soils experience denudation and	
	are acidic with low humus content. (2)	
	b) The soils found in the lower parts of the valley particularly on the river terraces and	
	alluvial fans are fertile. (1)	
52.	What is soil erosion? State the human activities and natural forces that lead to soil	3/5
	erosion. (1+3)	
	OR	
	Mention any two human activities which are responsible for the	
	and the period of the second o	1

	process of soil process of erosion. Explain any two types of soil erosion mostly observed in India. (S.A1-2012)	
	Ans. Meaning : The denudation of the soil cover and subsequent washing down is described as soil erosion. (1) Human activities : Deforestation, over-grazing, construction and mining. (2) Natural forces : Wind, glacier and water lead to soil erosion (2)	
53.	Define the following: Ans. 1) Gullies: The running water cuts through the clayey soils and makes deep channels as gullies. 2. Bad lands: The land becomes unfit for cultivation and is known as bad land. 3. Ravines: Bad land in the Chambal basin is called ravines. 4. Sheet Erosion: Sometimes water flows as a sheet over large areas down a slope. In	1/3/5
	such cases the top soil is washed away, this is known as sheet erosion.	
54.	What is wind erosion? How do the defective methods of farming cause soil erosion? Ans. a) Wind erosion: Wind blows loose soil off flat or sloping land known as wind erosion. (1) b) Defective methods of farming: Soil erosion is also caused due to defective methods of farming. Ploughing in a wrong way i.e. up and down the slope form channels for quick flow of water leading to soil erosion. (2)	3
55.	What steps can be taken to control soil erosion? (S.A1, 2012) OR Suggest any three measures to control soil erosion caused by various reasons. (S.A 1- 2013)	One mark of each
	Ans. The following steps can be taken to control soil erosion: 1) Contour ploughing: Ploughing along the contour lines can decelerate the flow of water down the slopes. Contour ploughing in Microsoft Management County, Towa USDA Ploto by Ten McLaba. Contour Ploughing	poin
	2) Terrace farming: Steps can be cut out on the slopes making terraces. Terrace cultivation restricts erosion. Western and central Himalayas have well developed terrace farming.	

Terrace Farming

3) **Strip cropping**: Large fields can be divided into strips. Strips of grass are left to grow between the crops. This breaks up the force of the wind. This method is known as strip cropping.



Map work: Major soil types (Identification only)
