

**ICSE Board
Class X Geography
Board Paper – 2019**

Time: 2 hrs

Total Marks: 80

Answers to this paper must be written on the paper provided separately.

You will **NOT** be allowed to write during the first 15 minutes.

This time is to be spent in reading the question paper.

The time given at the head of this paper is the time allowed for writing the answers.

Attempt seven questions in all. Part I is compulsory. All questions from Part I are to be attempted. A total of five questions are to be attempted from Part II.

Intended marks for questions or part of questions are given in brackets []

Part I (30 Marks)

*Attempt **all** questions from this **Part***

Question I

Study the extract of the **Survey of India** Map sheet No **45D/10** and answer the following questions:

- (a) (i) Give the **six-figure** grid reference for the temple that is located to the south west of *Pithapura settlement*.
- (ii) Give the **four-figure** grid reference for a *settlement* where people of the region meet socially and for *trade* at least *once in a year*. [2]
- (b) (i) What is the *pattern of drainage* seen in the grid square **2118**?
- (ii) What is the *pattern of settlement* seen in the grid square **1923**? [2]
- (c) What do each of the two numbers (281 printed in black colour and 20 printed in red colour) in the grid square **1818** indicate? [2]
- (d) (i) Name any **two man-made** features in grid square **2419**.
- (ii) Name any **two natural features** in grid square **2118**. [2]
- (e) What is the significance of the following? [2]
 - (i) **Fire line** in grid square **2417**.
 - (ii) Water body found in grid square **2221**.
- (f) Calculate the **area** of the region between **16** and **19** Easting's and **18** and **22** Northings. Give your answer in **Kilometer square**. [2]
- (g) Give a reason for each of the following: [2]
 - (i) The water in some of the wells in north west quarter of the map is *not fit for drinking*.
 - (ii) The region near Anadra and Gulabganj has many *causeways*.
- (h) (i) What is the *main means of irrigation* used by people living in the area shown on the map?

(ii) What is the *main occupation* of the people of the region shown on the map? [2]

(i) Which according to you is the *most important settlement*? Give a reason to support your answer. [2]

(j) Name any two *means of transport* used by the people living in the area shown on the map extract. [2]

Solution 1:

(a) (i) 201214

(ii) Village Pamera 1622 or Village Malgaon 1520.

(b) (i) Radial

(ii) Nucleated or clustered.

(c) (i) 281 in Black → Spot height
20 in Red → Mile stone

(d) (i) Cart track, lined perennial well, houses.

(ii) Seasonal streams, hill Bhumi Magri.

(e) (i) Fireline → A clearing made in the forest to prevent the spread of fire.

(ii) It is the Tokra reservoir/ Talao which provides the supply of water for domestic as well as agriculture use.

(f) Distance on the map between eastings 16 to 19 = 6 cm.

Distance on the map between northings 18 to 22 = 8 cm.

As per scale, 2 cm on the map is equal to 1 km on the ground.

6 cm on the map is equal to 1km on the ground ie, $\frac{1}{2} \times 6 = 3km$

8 cm on the map is equal to 1km on the ground ie, $\frac{1}{2} \times 8 = 4km$

Thus, Area = 3km × 4km

= 12 sq km.

(g) (i) The water in the wells in the north-west quarter of the map is brackish. Meaning that the water in these wells is salty. Thus, it is not suitable for drinking.

(ii) Area between Gulabganj and Anadra is a region of scanty rainfall with a number of seasonal streams. So, elevated roads across minor streams are possible- leading to the region having many cause ways.

(h) (i) Canal and lined perennial wells.

(ii) Agriculture.

- (i) Anadra is the most important settlement as it has a post and a telegraph office, dak Bungalow, police chowki and a dispensary.
- (j) Metalled Roads and Cart tracks.

Question 2

On the outline map of India provided:

- (a) Shade and label the *Gangetic Plain*. [1]
- (b) Shade and label an area of laterite soil **in North India**. [1]
- (c) Mark and label the *Karakoram Montanins*. [1]
- (d) Mark and name the *Palk Strait*. [1]
- (e) Shade and label the river *Cauveri*. [1]
- (f) Mark and name *Mumbai*. [1]
- (g) Mark and name the *Nathu La Pass*. [1]
- (h) Mark and name *Digboi*. [1]
- (i) Shade and name the *Deccan Platau*. [1]
- (j) Shade and label the river *Jhelum*. [1]

PART II (50 Marks)

Attempt **any five** questions from **this Part**

Question 3

- (a) (i) What type of wind is 'Monsoon'? What is the direction during summer?
- (ii) Mention **two** characteristics of the *Indian monsoon*. [2]
- (b) With reference to the summer season in India, answer the following questions:
- (i) Mention the duration of the summer season in India.
- (ii) What is the atmospheric pressure condition during summer season over the central part of India? [2]
- (c) Give a reason for each of the following:
- (i) Goa receives heavier rainfall than *Puducherry*
- (ii) *Mawsynram* receives the highest average annual rainfall.
- (iii) *Mangaluru* is cooler than Delhi in summer season. [3]
- (d) Study the data of distribution of temperature and rain for Station X and answer the questions that follow. [3]

Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec
Temp °C	10	11	23	35	39	42	40	33	30	25	13	11
Rainfall Cm	2	1	0	5	15	62	71	81	59	12	10	3

Solution 3:

- (a) (i) Monsoon wind is a periodic wind. It's direction during summer is South West to North East.
- (ii) The characteristics of Indian monsoon are:
1. South west monsoon is erratic in nature.
 2. Distribution of rainfall is uneven.
 3. It is largely controlled by orography, that is, the effects caused due to the presence of Himalayas and the Western ghats on the amount of rainfall.
- (b) (i) The summer season or hot dry season in India commences in March and continues till the end of May.
- (ii) During the summer season as the whole country simmers in heat, the low pressure conditions over the central part of India become more severe and a low pressure trough develops between Thar Desert and the Chotanagpur Plateau.
- (c) Goa is located on the Western coast of India. It receives rainfall from the Arabian Sea branch of SW monsoon while Puducherry is located on the Eastern coast and gets only 40 cm of rainfall from the Arabian Sea branch of southwest monsoon. Bay of Bengal branch runs parallel to the SE coast of India and thus, brings no rain to Puducherry. So, Goa receives heavier rainfall than Puducherry.
- (ii) Mawsynram is situated along the edge of the Meghalaya plateau and stands at the end of a funnel-shaped valley, on the windward side of the Khasi hills which acts as a trap for the rain-

bearing Bay of Bengal branch of the SW monsoon forcing them to shed huge amounts of moisture.

(iii) Mangaluru is situated on the western coast and thus, enjoy the influence of the sea and stays relatively cooler on the other hand, Delhi lies in the interior and experience continental type of climate. So summers in Delhi are very hot.

- (d) (i) Station x is situated in the interior parts of the country.
(ii) 32 cm
(iii) SW monsoon wind.

Question 4

(a) (i) Name the Indian soil which is formed due to the *weathering of basic igneous rocks*.

(ii) Name *two states* of India where this type of soil is found. [2]

(b) Name the following: [2]

(i) An important *transported soil* of India.

(ii) Soil that is *rich in iron oxide*.

(c) Give a geographical reason for each of the following: [3]

(i) *Terrace farming* is an ideal soil conservation method for *hilly regions*.

(ii) *Dry farming* is preferred in areas with *red soil*.

(iii) *Wind* is a common agent of soil erosion in arid regions.

(d) Briefly answer the following: [3]

(i) Mention one way in which man is responsible for soil erosion.

(ii) How can deepening of the river bed help in preventing soil erosion?

(iii) Mention a physical characteristic of Laterite soil.

Solution 4:

(a) (i) Black Soil.

(ii) Maharashtra and Gujarat.

(b) (i) Alluvial Soil

(ii) Red Soil

(c) (i) Terraced farming checks erosion as it controls the direct flow of water down the slopes.

(ii) Regions that receives less than 75 cm of rainfall are suitable for dry farming. Crops like millets, pulse, oil seeds need less rainfall and grow well in red soil. So, dry farming is preferred in areas of red soil.

(iii) Arid regions are extensive flat lands with no or few vegetation cover. So, the dry winds are able to erode the upper soil surface which become loose due to lack of moisture.

(d) (i) Man's activities like construction work, ploughing, cutting down trees, quarrying, mining causes soil erosion.

- (ii) Much of the soil erosion by floods can be checked by deepening of the river bed. Deep river beds, as deep river beds can stop overflowing of river water or floods and can reduce the speed of the overflowing water. So, it can greatly help in preventing large scale soil erosion.
- (iii) Heavy rainfall washes away the top soil containing silica. So, the laterite soils lacks fertility due to 'leaching'. It is reddish brown in colour due to the presence of iron oxide and it is coarse and porous in nature.

Question 5

- (a) Give **two reasons** to explain as to why we *need to conserve* our forest resource. [2]
- (b) (i) Mention *two* conditions required for the growth of *Littoral Forest*.
- (ii) State **one characteristic** feature of the forest found in the *Nilgiri Hills*. [2]
- (c) (i) Give **two reasons** to explain as to why the *Tropical Evergreen Forests* are difficult to exploit for *commercial purpose*. [3]
- (ii) Name any **two trees** found in Tropical Evergreen forests.
- (d) Briefly explain each of the following: [3]
- (i) The trees in the Tropical Desert Forests have *stunted growth*.
- (ii) There is a *gradual increase* in the forests cover in India in recent times.
- (iii) The trees in *Monsoon Deciduous forests*, shed their leaves for about 6-8 weeks during March and April.

Solution 5:

- (a) The conservation of forest resources is essential for the survival of human being, wildlife and other species, as forests play an important role in the development of soil and enriching its fertility, conserving water in the sub-soil, absorbing insolation, causing rain, maintaining ecological balance, preventing floods and soil erosion.
- (b) (i) Conditions required for the growth of littoral forest are:
 1. Delta regions or creeks and estuaries which are prone to tidal influence.
 2. Temperature 26°C to 29 °C.
 3. Rainfall over 200cm.
- (ii) Mountain forests consist of mixed deciduous and coniferous trees in transition zone. The main tree is Eucalyptus. The forests are characterized by giant, multilayered species with luxuriant vegetation. The height of the trees go up to 150 feet or more supported by huge buttresses.
- (c) (i) Tropical Evergreen Forests are difficult to exploit due to :
 1. Dense undergrowth.
 2. Lack of transport facilities.
 3. Absence of trees found in pure stands.

4. Logs are heavy so, they do not float in the river. Thus, causing the cost of transportation to rise.

(ii) Rose wood, Ebony, Mahogany, Sisam.

(d) (i) The trees in the tropical desert have stunted growth due to constant wind and scarce water supply.

(ii) 1. There is a gradual increase in the forest cover due to programmes like 'Van- Mahotsava' under which all government employees' plant trees.

2. Due to Afforestation scheme in which trees are planted in Rajasthan, West U.P. and Kutch region.

3. Due to Reafforestation Scheme in which 2 saplings, are planted for every tree that is cut.

(iii) Trees in monsoon deciduous forests shed their leaves for about 6-8 weeks during March and April. To prevent transpiration and to preserve water for the dry months.

Question 6

(a) "*The modern means of irrigation are gaining popularity*". [2]

Give **two reasons** to justify this statement.

(b) Mention **two factors** that favour the development of tube well irrigation in Punjab. [2]

(c) Give a reason for each of the following: [3]

(i) Most of the South Indian states are ***not suitable*** for development of canal irrigation.

(ii) There is an urgent need for water conservation in India.

(iii) Development of irrigation is essential for the growth of the agriculture sector of India.

(d) Briefly explain the following terms: [3]

(i) Inundation canal.

(ii) Rooftop rainwater harvesting.

(iii) Surface water.

Solution 6:

(a) The modern means of irrigation like sprinkler or drip irrigation are by far the best methods for conserving water as:

1. There is no wastage of water due to seepage or evaporation.

2. High application efficiency.

3. Labour cost is less.

4. Prevents water pollution.

(b) The two factors for the development of tube well irrigation in Punjab are;

1. Soft alluvial soil facilitate digging as deep as required.

2. High water table with perennial water supply.

(c) (i) Most of the rivers in South India are non- perennial. Deccan plateau consisting of hard igneous and metamorphic rock making it difficult to dig. So, states in South India are not suitable for canal irrigation.

(ii) A fresh water resources such as rivers, lakes and ponds are drying up due to excessive use and climate change. Industrial development is leading to the pollution of fresh water bodies like lakes, river and ponds due to the increased usage of heavy metals, fertilizers and pesticides by industries, plantations and farmers. Ground water levels in urban areas are falling due to bore well and tube wells being dug deeper into the earth with water in the aquifer depleting faster than it is being replenished. Thus, with rising water scarcity and growing population there is an urgent need to conserve water in India for the future generations.

(iii) Only 30% of the cultivated area receives sufficient annual rainfall while 40% receives less than 75cm of annual rainfall.

1. Rabi crops need irrigation as most parts of India receives no rain during winter.
2. Some crops like rice, jute, sugarcane need more water. So, India needs enhanced irrigation facilities to get maximum yield from the same land.

(d) (i) Inundation canals are taken out from perennial rivers without any regulation system like weirs and barrages at their head to regulate the flow of the river. The supply of water comes only when the river is flooded in the lower level regions only. This type of irrigation is cheap and can also be useful in controlling floods.

(ii) Rooftop Rain water harvesting is the technique through which rain water is captured from the roof catchments and stored in reservoirs. This harvested rain water can be stored in sub-surface ground water reservoirs by adopting artificial recharge techniques to meet the household needs through storage tanks.

(iii) Surface water is available on the surface of the Earth in the form of rivers, lakes, ponds and canals. Rivers comprise of the most important source of surface water. Most of the Himalayan rivers are perennial while the rivers of the peninsular India are seasonal.

Question 7

(a) Give **two advantages** of using *bio-gas* as a source of power. [2]

(b) Name the following: [2]

(i) A **metallic mineral** for which the Balaghat district of Madhya Pradesh is famous.

(ii) The *Multi-purpose project* based on the River Sutlej.

(c) Give a reason for each of the following: [3]

(i) **Odisha** has benefitted greatly from the **Hirakud project**.

(ii) **Copper** is used to make **electric wires**.

(iii) India's location is advantageous for the generation of **solar power**.

(d) Briefly answer the following: [3]

(i) Name a *mineral* used to generate nuclear power.

(ii) Why is *petroleum* often referred to as "**liquid gold**"?

(iii) State **one disadvantage** of using coal as a source of power.

Solution 7:

(a) Bio-gas energy uses organic material and waste like agricultural waste and household waste for its production. So, it is a sustainable source of energy. Its usage as a source of power has many advantage such as:

1. The process emits far less greenhouse gases into the air than in fossil fuels.
2. It is cost effective.
3. It saves about 70 lakh tons of fuel wood and reduces dependence on fossil fuels.

(b) (i) Cooper
(ii) Bhakra Nagal Project.

(c) (i) Odisha has greatly benefited from the Hirakud project as the canals originating from the dam helps irrigate vast areas of agricultural land. The project also provides navigation facilities for the transportation of goods. The project also has two power houses, chipima power house and Hirakud power house which supply power to a number of industries thus, making a valuable contribution to the industrial development of Odisha as it is very rich in mineral resources like iron, bauxite and manganese, etc.

(ii) Copper is a good electrical conductor. So, it is used in the electrical industry mainly to make copper wire.

(iii) The Sun offer 'direct' and inexhaustible source of energy, especially in a tropical country like India, with over 300 days of clear sky that can be utilized to generate electrical energy. Thus, India's location is advantageous for the generation of solar power.

(d) (i) Uranium/ Plutonium/ Beryllium/ Thorium.

(ii) Petroleum is a fossil fuel, can be extracted easily at a low cost, and sold at a cheaper cost as compared to other sources of energy. It can generate up to 10,000 kilo calories of energy. It can be easily transported. So, it is known as 'liquid Gold'.

(iii) Using coal as a source of power requires burning it. Burning coal emits harmful waste like carbon dioxide, sulphuric acid, arsenic, ash, and nitrogen oxide and sulphur dioxide, increasing greenhouse gases into the atmosphere. It may also cause acid rain. Thus, causing severe harm to our environment.

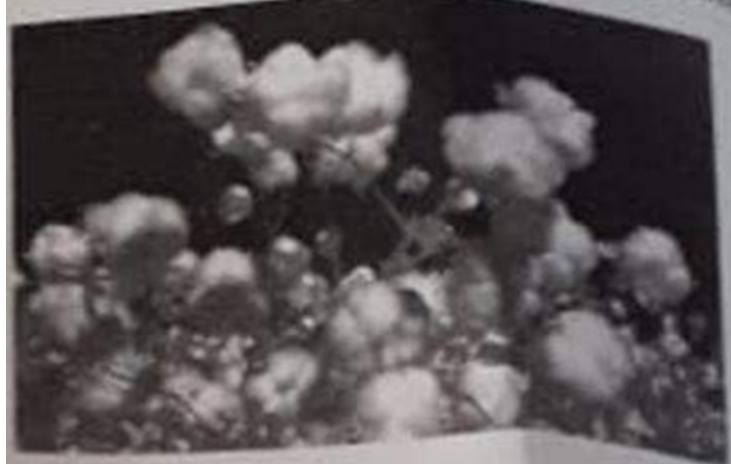
Question 8

(a) Mention two steps taken by the government to boost agricultural production in India. [2]

(b) (i) Name two varieties of millet grown in India. [2]

(ii) *What is the soil requirement for growing millet?*

(c) Study the picture given below and answer the questions that follows:



- (i) Mention the *climatic condition* that is suitable for the cultivation of this crop.
- (ii) Name the *state* that produces the *largest amount* of this crop.
- (iii) In which *cropping season* is this crop grown in India?
- (d) Give a geographical reason for each of the following ; [3]
 - (i) Cultivation of *wheat* is confined to the *northern part of India*.
 - (ii) Practicing *mixed farming* gives *security* to farmers.
 - (iii) *Ratoon* cropping is *gaining popularity* among sugarcane cultivations.

Solution 8:

- (a) Two steps are:
 1. Use of HYV seeds.
 2. Rural electrification.
 3. Supply of agricultural credit.
 4. Land reforms law.
 5. Irrigation facilities.
 6. Opening of agricultural universities.
- (b) (i) Jowar and Bajra.
- (ii) Millets do not have any special requirements as far as soil is concerned. Loamy, sandy, clayey deep regur and alluvial soil are best growing millets.
- (c) (i) The temperature should be in between 21°C to 27°C and should not be less than 20°C. The rainfall should be between 50-80 cm and should be well distributed as stagnant water and excessive rain can be harmful to the plant. The cotton crop needs 200 frost free days during the period of growth.
- (ii) Punjab.
- (iii) In North India it is a Rabi crop but in South India it is Kharif crop.

(d) (i) Wheat grows well in a cool climate with 50cm to 100cm of rainfall during the growing season. It needs an average temperature of 10°-15°C at the time of sowing and 20°-25°C during the harvesting period. North India enjoys this type of climate, whereas South India does not so, wheat cultivation is confined to North India only.

(ii) Cultivation of crops and rearing of livestock is done simultaneously in mixed farming. If crops fails, the farmers get income from the livestock. So, this give security to the farmers.

(iii) Ratoon cropping does not involve any extra expenditure for replanting the crop. It involves shorter maturation period. So, it is gaining popularity among sugarcane cultivators.

Question 9

(a) Where do the following *iron* and *steel plants* get their supply of **iron ore** from? [2]

(i) Bhilai Iron and Steel Plant.

(ii) Vishakhapatnam Steel Plant.

(b) '*Karnataka has developed as an important state for the growth of the Silk industry*'. Give **two reasons** to justify the statement. [2]

(c) With reference to **sugar industries** answer the following questions: [3]

(i) Why should these industries be located close to the sugarcane growing areas?

(ii) Name **two** by – products of the sugar industry.

(iii) Mention **one** leading sugar producing state in North India and **one** in South India.

(d) Give a reason for each of the following: [3]

(i) **Ahmedabad** is an important cotton *textile* producing centre in India.

(ii) Cottage industries are significant for our economy.

(iii) Petrochemical industries are usually located close to the oil refineries.

Solution 9:

(a) (i) Bhilai Iron and Steel Plant get iron ore from Dalli-Rajhara range.

(ii) Vishakhapatnam Steel Plant get iron ore from Bailadila mines in Chhattisgarh.

(b) Karnataka has developed as an important state for the growth of the silk industry for the following reason:

1. Availability of favorable climate for rearing of Silkworms throughout the year.

2. Availability of Mulberry plant which is raised as plantation bush.

3. Availability of soft water.

(c) (i) Sugarcane needs to be crushed within 24 to 48 hrs, otherwise, the sucrose content is reduced. So, the sugar industry should be located close to the sugarcane growing areas.

(ii) Molasses, Bagasses, Preemud.

(iii) North India---- Up/Punjab/Bihar/Haryana.

South India- Maharashtra/ Karnataka.

(d) (i) Ahmedabad is located right in the centre of the cotton producing area, it enjoys humid climate which is ideal for cotton thread it provides a huge ready market for cheaper cloth among the poor masses of India. It also has an advantage of both kandla (free trade zone) and Mumbai

port for export and import. So, Ahmedabad is an important cotton textile producing centre in India.

(ii) Cottage industries are significant for our economy in the following ways:

1. Cottage industries provide employment to a large number of people in India.
2. It also helps India to earn considerable amount of Foreign exchange.
3. It also stops rural to urban migration.

(iii) Petrochemical industry gets its raw materials from the oil refineries. So, they are located close to the oil refineries.

Question 10

(a) “Roadways are an important means of transport in India”. Give **two reasons** to justify the statement. [2]

(b) (i) Why are South Indian rivers **not ideal** for the inland water transport?

(ii) Mention **one** advantage of coastal shipping.

(c) Give a reason for each of the following: [3]

(i) Nearly seventy *percent* of Indians *do not* use air transport.

(ii) A *well-developed transport network* is important for industrial growth.

(iii) Water transport is not as popular as land transport in India.

(d) (i) “The railway is an important means of transport as compared to airways.” State

two reasons to support the statement.

(ii) Mention one disadvantage of rail transport.

Solution 10:

(a) Roadways are an important means of transport in India because:

- 1) Road construction can be undertaken in remote areas, difficult terrains, high altitudes and steep slopes.
- 2) It provide a link between the railways and the ports.

(b) (i) Rivers in South India flow in a rocky areas and have an irregular terrain with a number of waterfalls and sharp bends. So, the rivers are not suitable for inland water transport.

(ii) Coastal shipping is the most economical and environment friendly mode of transport as compared to railways and airways as it saves fuel, it reduces the burden on rail and road transport system and provides employment to thousand of people.

(c) (i) Air transport is very expensive . It tends to serve only a particular sector who can afford the exorbitant fares. These fares are normally beyond the reach of the common man. Thus, 70% of Indians cannot afford it.

(ii) A well –developed transport network is important as it is the lifeline for the economic development of the country. Transport links consumption to production and hinterland to the production centres. It also links the country with rest of the world. Thus, a well –developed transport network is important for the overall industrial growth of the country.

(iii) Water transport is a very slow means of transport as compared to land transport. In India there is always a chance of failure of monsoon which may result into a fall of water level in the rivers making navigation difficult whereas, land transport does not face any such seasonal

difficulties. Water transport is more risky as compared to land transport because there is always a danger of sinking of ships or boats. Thus, it is not as popular as land transport.

(d) (i) rail Transport is the cheapest mode of transport for bulky products like food grain, minerals, heavy defense equipment, etc. whereas, air transport is expensive for both passenger and freight. Rail transport helps to link the rural India with the urban cities, on the other hand air transport links only the major cities of the country to one another. Thus, railways is an important means of transport as compared to airways.

(ii) Railways are unsafe due to poor maintenance, frequent accidents, terror attacks and faulty repairs. Poor management, poor catering and lack of amenities at railway stations have resulted in an inefficient image of the railways in the eyes of the public.

Question 11

(a) What impact does the Waste accumulation have on the following? [2]

(i) Quality of air around us

(ii) Quality of water around us

(b) Mention **two ways** in which the decomposition of waste in open areas can affect human health. [2]

(c) (i) What can an individual do to *reduce* waste at home? [3]

(ii) Why must *segregation* of waste be done before disposal?

(iii) How has composting proven to be a great help in managing waste?

(d) Give a reason for each of the following : [3]

(i) Trees must be planted in the industrial areas.

(ii) Chemical fertilizers must be replaced by organic manure.

(iii) Plastic and polythene products must be banned.

Solution 11:

(a) (i) Quality of the air around us:

Over crowded urban areas generate excessive waste in form of large piles of garbage. This accumulated waste releases various pollutants into the air. Primary pollutants that are emitted directly into the air include carbon monoxide, sulphur dioxide, nitrogen oxide and SPM which lead to common air hazards such as acid rain, global warming, ozone depletion and smog formation.

(ii) Quality of water around us:

Industrial plants or manufactures release various pollutants such as arsenic, lead, mercury in the water bodies which when accumulated pollute the streams, rivers and oceans there by causing serious health hazards in humans as well as the aquatic life.

(b) Decomposition of waste in open areas can affect human health in the following ways:

1. Decomposition of waste in landfills releases various harmful gases such as methane that causes chemical poisoning among humans.

2. Landfills also attract all types of insects and rodents that spread various diseases.

(c) (i) 1. Instead of discarding house hold items one can reuse the items after repairing and polishing them.

2. Household waste like vegetable peels, garden waste etc. can be reduced by making compost.

3. Use products which do not generate too much waste, are ecofriendly and biodegradable.

(ii) Waste from residential areas, hotels, offices and commercial areas must be segregated into different categories of biodegradable and non degradable wastes for treating, recycling and disposing appropriately.

(iii) Composting has proven to be of great help in managing waste as it has led to:

1. Conversion of organic waste into valuable fertilizers.

2. Reduction of the quantity of waste to be disposed of by householder.

3. It is normal waste disposal system and help nutrients get back into the soil.

(d) (i) Trees must be planted in and around the industrial areas as trees can arrest the pollutants and avoid health hazards of the human and animal population living in and around the industry.

(ii) Chemical fertilizers remain in the soil for a long time contaminating the top soil and ground water while the organic manure improves the texture of the soil, aids plant growth and increase the water holding capacity of the soil, . Thus, chemical fertilizers must be replaced by organic manure.

(iii) Disposal of plastics and its effects on human health are a matter of great concern. Coloured plastics are harmful as their pigment contains heavy metals that are highly toxic other toxic contents in plastics can cause great harm to both humans and animals.