**GEOGRAPHY**

**H.C.G. - Paper – 2**

***(Two hours)***

*Answers to this Paper must be written on the answer sheet 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.***

*The intended marks for questions or parts of questions are given in brackets [ ].*

***Note****:*

*To be supplied with this Paper: Survey of India Map Sheet No.* ***45D/10***

*and 20 cm of twine.*

1. *In all* ***Map Work****, make wise use of arrows to avoid overcrowding of the map.*
2. *The extract of* ***Survey of India Map Sheet No. 45D/10*** *must not be taken out of the examination hall. It must be handed over to the Supervising Examiner on completion of the paper.*
3. *The Map given at the end of this question paper must be detached, and after marking, must be fastened to your answer booklet.*
4. ***All sub-sections of the questions attempted must be answered in the correct serial order.***
5. *All working including rough work should be done on the same answer sheet which is used to answer the rest of the paper.*

**This Paper consists of 9 printed pages and 1 outline map.**

**T19 502 Turn over**

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**PART I (30 Marks)**

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

**Question 1**

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

* 1. (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]

* 1. (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]

* 1. 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]

* 1. (i) Name any **two** *man-made* features in grid square **2419**.

(ii) Name any **two** *natural features* in grid square **2118**.

[2]

* 1. What is the *significance* of the following?
     1. **Fire line** in grid square **2417**.
     2. Water body found in grid square **2221**.

[2]

* 1. Calculate the ***area*** of the region between **16** and **19** Eastings and **18** and **22**

Northings. Give your answer in **kilometre square**.

[2]

* 1. Give a reason for each of the following:
     1. The water in some of the wells in the north west quarter of the map is ***not*** *fit for drinking*.
     2. The region near Anadra and Gulabganj has many *causeways*.

[2]

* 1. (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]

* 1. Which according to you is the *most important settlement*? Give a reason to support your answer.

[2]

* 1. Name any two *means of transport* used by the people living in the area shown on the map extract.

[2]

**Question 2**

On the outline map of India provided:

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

**PART II (50 Marks)**

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

**Question 3**

1. (i) What type of wind is ‘*Monsoon’*? What is its direction during summer?

(ii) Mention **two** characteristics of the *Indian monsoon*.

[2]

1. With reference to the *summer season* in India, answer the following questions:
   1. Mention the duration of the summer season in India.
   2. What is the *atmospheric pressure condition* during summer season over the

*central part of India*?

[2]

1. Give a reason for each of the following:
   1. *Goa* receives heavier rainfall than *Puducherry*.
   2. *Mawsynram* receives the highest average annual rainfall.
   3. *Mangaluru* is cooler than *Delhi* in summer season.

[3]

1. 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 | SEP | 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 |

* 1. Is Station X in the *coastal area* **or** in the *interior* of the country?
  2. Calculate the *total annual rainfall* for Station X.
  3. Name the *wind* that brings **most** of the rainfall to Station X.

**Question 4**

1. (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]

1. Name the following:
   1. An important *transported soil* of India.
   2. Soil that is *rich in iron oxide*.

[2]

1. Give a geographical reason for each of the following:
   1. *Terrace farming* is an ideal soil conservation method for *hilly regions*.
   2. *Dry farming* is preferred in areas with *red soil*.
   3. *Wind* is a common agent of soil erosion in *arid regions*.

[3]

1. Briefly answer the following:
   1. Mention one way in which *man* is responsible for soil erosion.
   2. How can deepening of the river bed help in preventing soil erosion?
   3. Mention a physical characteristic of Laterite soil.

[3]

**Question 5**

1. Give ***two* reasons** to explain as to why we *need to conserve* our forest resource. [2]
2. (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]

1. (i) Give **two reasons** to explain as to why the *Tropical Evergreen Forests* are difficult to exploit for *commercial purpose*.

(ii) Name any **two trees** found in Tropical Evergreen forests.

[3]

1. Briefly explain each of the following:
   1. The trees in the Tropical Desert Forest have *stunted growth*.
   2. There is a *gradual increase* in the forest cover in India in recent times.
   3. The trees in *Monsoon Deciduous forests*, shed their leaves for about 6-8 weeks during March and April.

[3]

**Question 6**

1. *“The modern means of irrigation are gaining popularity.”*

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

[2]

1. Mention **two factors** that favour the development of tube well irrigation in Punjab. [2]
2. Give a reason for each of the following:
   1. Most of the South Indian states are ***not suitable*** *for development of canal irrigation*.
   2. There is an urgent need for *water conservation* in India.
   3. Development of irrigation is essential for the *growth of the agriculture* sector of India.

[3]

1. Briefly explain the following terms:
   1. Inundation canal.
   2. Rooftop rainwater harvesting.
   3. Surface water.

[3]

**Question 7**

1. Give **two advantages** of using *bio-gas* as a source of power. [2]
2. Name the following:
   1. **A metallic mineral** for which the *Balaghat* district of Madhya Pradesh is famous.
   2. The *multi-purpose project* based on the *River Sutlej*.

[2]

1. Give a reason for each of the following:
   1. **Odisha** has benefitted greatly from the **Hirakud project**.
   2. **Copper** is used to make **electric wires**.
   3. India’s location is advantageous for the generation of **solar power**.

[3]

1. Briefly answer the following:
   1. Name a *mineral* used to generate *nuclear power*.
   2. Why is *petroleum* often referred to as **“liquid gold”**?
   3. State **one disadvantage** of using coal as a source of power.

[3]

**Question 8**

1. Mention **two steps** taken by the government to boost agricultural production in India.

[2]

1. (i) Name two *varieties of millet* grown in India.

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

[2]

1. Study the picture given below and answer the questions that follow:



* 1. Mention the *climatic condition* that is suitable for the cultivation of this crop.
  2. Name the *state* that produces the *largest amount* of this crop.
  3. In which *cropping season* is this crop grown in India?

[3]

1. Give a geographical reason for each of the following:
   1. Cultivation of *wheat is* confined to the *northern part of India*.
   2. Practicing *mixed farming* gives *security* to farmers.
   3. *Ratoon* cropping is *gaining popularity* among sugarcane cultivators.

[3]

**Question 9**

1. Where do the following *iron and steel plants* get their supply of ***iron ore*** from*?*
   1. Bhilai Iron and Steel Plant.
   2. Vishakhapatnam Steel Plant.

[2]

1. *‘Karnataka has developed as an important state for the growth of the Silk industry.’*

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

[2]

1. With reference to ***sugar industries*** answer the following questions:
   1. Why should these industries *be located close to* the sugarcane growing areas?
   2. Name ***two*** *by-products* of the sugar industry.
   3. Mention ***one*** *leading* sugar producing state *in North India* and ***one*** *in South India.*

[3]

1. Give a reason for each of the following:
   1. **Ahmedabad** is an important *cotton textile* producing centre in India.
   2. Cottage industries are significant for our economy
   3. *Petrochemical industries* are usually located close to the oil refineries.

[3]

**Question 10**

1. *“Roadways are an important means of transport in India”.*

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

[2]

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

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

[2]

1. Give a reason for each of the following:
   1. Nearly seventy *percent* of Indians *do not* use air transport.
   2. *A well-developed transport network* is important for industrial growth.
   3. Water transport is not as popular as land transport in India.

[3]

1. (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.

[3]

**Question 11**

1. What impact does the waste accumulation have on the following?
   1. Quality of air around us.
   2. Quality of water around us.

[2]

1. Mention **two ways** in which the decomposition of waste in open areas can affect human health.

[2]

1. (i) What can an individual do to *reduce* waste at home?
2. Why must *segregation* of waste be done before disposal?
3. How has *composting* proven to be a great help in managing waste?

[3]

1. Give a reason for each of the following:
   1. Trees must be planted in the industrial areas.
   2. Chemical fertilizers must be replaced by organic manure.
   3. Plastic and polythene products must be banned.

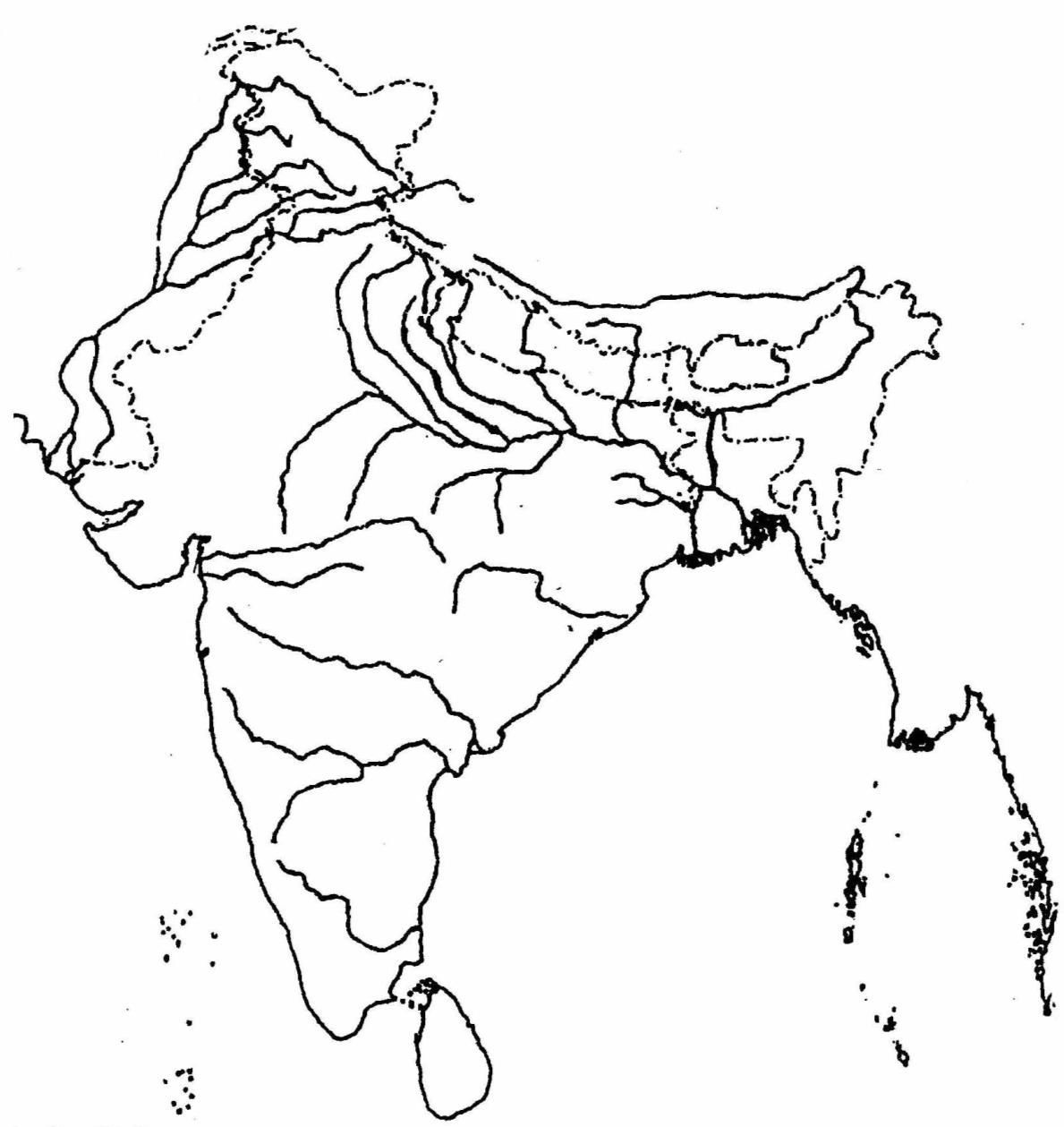
[3]

**Question No. 2**

**Index No.……………………………………………. UID……………………………..**

(This map, if used, must be fastened with all other answers)

**Map of India for Question 2.**



|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| ONLY FOR THE EXAMINER | | | | | | | | | |  |
| a | b | c | d | e | f | g | h | i | j | Total |
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