

**HIRANANDANI FOUNDATION SCHOOL, THANE**  
**Second Preliminary Examination – January, 2019**  
**Subject: Geography – H.C.G. – Paper – 2**

**Std: X**

**Date: -14 /01/2019**

**Time: 2hr,**

**Marks: 80**

*Answer to this paper must be written on 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 question from Part I are to attempted.*

*A total of five questions are to be attempted from Part II.*

*The indented marks for questions or part of questions are given in brackets [ ]*

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

**Note:**

- (i) *In the map work, by a wise use of arrows to indicate positions of all features and other insertions that you make, you will be able to avoid overcrowding part of the map.*
- (ii) *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 the completion of the paper.*
- (iii) *The Map given at the end of this question paper must be fastened with your answer booklet*
- (iv) *All sub-sections of each question must be answered in the correct serial order.*
- (v) *All working including rough work should be done on the same answer sheet as the rest of the answers.*

*This paper consists of 4 printed pages and 1 outline map.*

**PART I (30 marks)**

Attempt all question from this Part.

**Question - 1**

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

- (a) Give the six-figure grid reference of the following:
  - (i) Spot height 361
  - (ii) Permanent surveyed tree 251[2]
- (b) (i) How is the pattern of settlement shown in grid square 0407 is different from the settlement shown in grid square 0406?  
(ii) Identify the drainage pattern in grid square 0709 and in grid square 0807 [2]
- (c) How is 3r in grid square 0201 is different from in grid 0405? [2]
- (d) (i) What type of climate is experienced in the given map extract?  
(ii) Calculate the north- south length of the given map extract in metres. Show your working. [2]
- (e) (i) Calculate the area enclosed by Easting 03 to 06 and Northing 05 to 08. Show your working.  
(ii) Which is the common mode of transport in the given map extract? Give evidence. [2]
- (f) (i) On which bank of SipuNadiNimbora and Mitani are located?  
(ii) State one drawback of statement scale. [2]
- (g) Mention two manmade and two natural features in grid square 0704. [2]
- (h) Calculate the length of the metalled road in kilometres from the distance stone 12 to the causeway in grid square 1004. Show your working. [2]
- (i) With the evidence give the direction and stage of SukliNadi. [2]

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- (j) (i) Name the feature which is formed in the river bed in grid square 0208. Account for its formation.  
 (ii) Name any two types of natural vegetation found in the map extract. [2]

Question 2

On the outline map of India provided:

- (n) Mark and label the River Chenab [1]  
 (b) Shade and label the Kanara Coastal Plain. [1]  
 (c) Shade and label an area of Red soil in North East India. [1]  
 (d) Mark and name the deepest landlocked port in India. [1]  
 (e) Mark and label River Kosi [1]  
 (f) Mark and label Karakoram Pass [1]  
 (g) Mark and name the longest westward flowing river in India [1]  
 (h) Mark and label Satpura Range [1]  
 (i) Mark with C and name the largest coal field in India [1]  
 (j) Mark with arrows and label the Arabian Sea branch of South-West Monsoon winds. [1]

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**PART II 50 (Marks)**  
 Attempt any five questions from this Part.

Question 3

- (a) Explain how the apparent migration of the Sun affects the weather conditions of India in the following seasons:  
 (i) The Hot weather season [2]  
 (ii) The cold weather season. [2]
- (b) Name the following:  
 (i) One region of India that receives rainfall in summer and winter. [1]  
 (ii) The type of rainfall received by Mumbai in the rainy season. [1]  
 (iii) One region receives rainfall between 100 to 200 cm a year. [1]
- (iv) The sudden violent onset of rainfall in the first week of June. [1]
- (c) Give reasons:-  
 (i) The summer monsoon winds blows over the Arabian sea from the South West. [1]  
 (ii) When the Malabar coast is receiving heavy rainfall in July, the Tamil Nadu coast is comparatively dry. [1]  
 (iii) India has varied climatic (temperature) conditions. [1]
- (d) Study the climatic data of the Station given below and answer the questions that follow:

Months	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
Temperature °C	23.1	24.8	26.5	29.3	32	32.8	33.1	32.1	30.5	29.3	28.7	26.1
Rainfall cm	0.2	0.2	0.3	1.0	1.8	50.6	61	24.8	24.8	15.2	1.0	0.7

- (i) Calculate the annual temperature of the station.  
 (ii) Calculate the total rainfall during the rainy season.  
 (iii) On which coast of India does the station lie? Give a reason for your answer. [3]

Question 4

- (a) Give one point of similarity and one point of difference between Red soil and Laterite soil. [2]
- (b) Name the type of erosion and one conservation method for the following regions:  
 (i) The Chambal Valley [2]  
 (ii) North Western part of India.

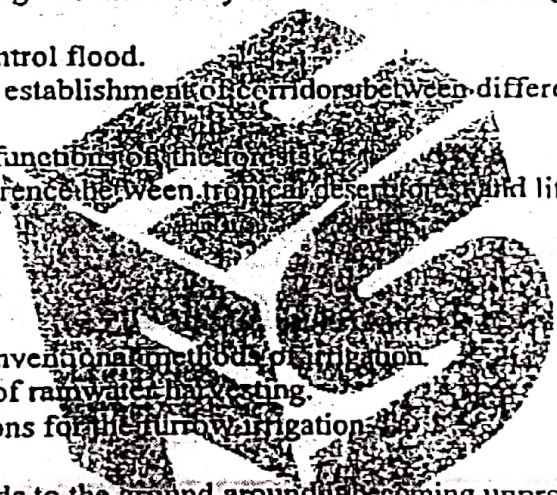


- (c) Give a geographical reason for each of the following: [3]  
 (i) Dry farming technique is ideally practiced in red soil.  
 (ii) Deltaic alluvium is very fertile.  
 (iii) Alluvial soil is easily tillable.
- (d) (i) Mention two ways through which soil get its nitrogen supply. [1]  
 (ii) Explain, how black soil is beneficial for the farmers in the rain shadow area of the Western Ghats? (two points) [2]

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**Question 5**

- (a) Identify the following trees: [2]  
 (i) Its bark and gum has medicinal value.  
 (ii) A hard and durable timber used for ship building.  
 (iii) It yields wood that is hard and scented and is usually found in high altitude.  
 (iv) Its timber is hard and strong, and it is used for making agricultural implements.
- (b) Explain, why tropical rainforest are so called? State two reasons for the less commercial exploitation of the above mentioned forest. [2]
- (c) Give reasons:- [3]  
 (i) In the Peninsular regions the variety in mountain forests ranges from tropical to temperate.  
 (ii) Forests helps to control flood.  
 (iii) There is a need for establishment of corridors between different reserved forest.
- (d) (i) Mention two regulatory functions of the forests. [1]  
 (ii) Give two points of difference between tropical desert forest and littoral forests. [2]



**Question 6**

- (a) Give two drawbacks of conventional methods of irrigation. [2]
- (b) (i) Mention two objectives of rainwater harvesting. [1]  
 (ii) State two ideal conditions for the furrow irrigation. [1]
- (c) Explain Why:- [1]  
 (i) Canal irrigation leads to the ground around it becoming unproductive. [1]  
 (ii) A tube well should be installed in a fertile and productive region. [1]  
 (iii) Tank irrigation is an important method of irrigation in Karnataka. [1]
- (d) Give two advantages and one disadvantage that tube wells have over the surface wells. [3]

**Question 7.**

- (a) Name the following: [2]  
 (i) The world's largest oil refinery in private sector.  
 (ii) The longest major earthen dam in Asia.  
 (iii) The black ore.  
 (iv) The main component of LPG.
- (b) (i) How is India is an advantageous position to harness solar energy? [1]  
 (ii) State two characteristics of anthracite variety of coal. [1]
- (c) (i) Why is coal mainly used near the source of production whereas mineral oil is often transported over great distance? [1]  
 (ii) Which grade of iron ore is mostly mined in India? Name one leading iron ore producing state. [1]  
 (iii) Petroleum is called liquid gold. Give reason. [1]
- (d) (i) Why is offshore oilfield of Mumbai known as Mumbai High? [1]  
 (ii) Explain, how electricity is produced with the help of geothermal energy. [2]



### Question 8

- (a) What is meant by ratooning? State one advantage and one disadvantage of ratooning. [2]  
(b) Define: [2]  
(i) Withering.  
(ii) Retting.  
(c) What is meant by an oil cake? State two uses. [2]  
(d) Name any two varieties of coffee grown in India. [1]  
(e) Explain, why? [1]  
(i) Tea bushes need to be pruned. [1]  
(ii) Drilling is one of the best method for sowing seed. [1]  
(iii) Soybean cultivation growing in importance. [1]

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### Question 9

- (a) Explain two problems faced by sugar industry in India. [2]  
(b) With reference to Rourkela steel plant, state the source of following: [2]  
(i) Coal (ii) Iron ore (iii) Water supply (iv) Limestone.  
(c) (i) Name the following: [1]  
(1) The first shore based steel plant in India.  
(2) Oldest steel plant under private sector in India.  
(ii) Mention any two problems faced by iron and steel industry in India. [2]  
(d) Give reasons: [1]  
(i) Kolkata is an important cotton manufacturing center even though West Bengal is not a leading producer of cotton. [1]  
(ii) Sericulture is flourished in Karnataka. [1]  
(iii) Petrochemical centers are mostly located near an oil refinery. [1]

### Question 10

- (a) Give two points of difference between express highways and state highways. [2]  
(b) Mention one advantage and one disadvantage of waterways. [2]  
(c) (i) Name the following: [2]  
(1) An important inland waterway of North East India.  
(2) A major port not located on the sea coast and is at a distance of 128km from the coast along the banks of a river.  
(3) A port on the east coast which is often hit by cyclone during the months of October and November.  
(4) Natural harbour which handles the export of tea, coffee and spices.  
(ii) State two purposes for which helicopter services may be used. [1]  
(d) (i) Give two reasons why airways are used extensively despite being an expensive mode of transport. [1]  
(ii) State two economic benefits of the Golden Quadrilateral project. [1]  
(iii) Why has the importance of inland waterways declined? Give reason. [1]

### Question 11

- (a) Explain, how oil spills is a threat to marine life. (two points) [2]  
(b) (i) Name any two monuments affected by acid rain. [1]  
(ii) State two common diseases spread by rodents. [1]  
(c) (i) Sanitary landfills are better than the open dumping. Explain why?(two points) [1]  
(ii) State two effects of pollution on soil. [1]  
(iii) The recycled plastic bags considered harmful for the environment. Give reason. [1]  
(d) Name two methods of composting and state two advantages of composting. [3]