



Trial Examination-2022
Chumey Higher Secondary School
Bumthang; Bhutan



Subject: Geography

Full Marks: 100

Class: X

Time: 2 Hours

READ THE FOLLOWING INSTRUCTIONS CAREFULLY

1. There are **eight** questions in this paper. **Section A** is **compulsory**. Choose any **five** from **Section B**.
2. There are **fourteen** pages in this question paper.
3. Answers to **all** the questions must be written neatly in the space provided.
4. Do not write during the first **fifteen minutes**. This time is to be spent on reading the questions.
5. You will have **two** hours to answer all the questions.

SECTION A [50 MARKS] ANSWER ALL THE QUESTIONS

Question 1A

(10 marks)

For each question, there are four alternatives: A, B, C, and D. Choose the most correct alternative and CIRCLE it. Do not CIRCLE more than ONE alternative. If there are more than ONE choice CIRCLED, NO score will be awarded.

- i. From the following choose the survey that deals with land survey.

A. Topographical survey.	C. Mine survey.
B. Engineering survey.	D. Geological survey.
- ii. Who proposed the Big Bang Theory?

A. Tuzo Wilson.	C. Edwin Hubble.
B. George Lemaitre.	D. Simon Laplace.
- iii. How would you apply your knowledge and understanding of the earth's grid in your daily life?

I. Locate the places.	III. Measuring the distance.
II. Determine time.	
A. I and II	C. I and III
B. II and III	D. I, II and III
- iv. The Plate Tectonic Theory was propounded by Laplace.

A. Tuzo Wilson.	C. Georges Lemaitre.
B. Alfred Wegner.	D. Pierre-Simon Laplace.

v. What conclusion can you draw from the image given below?

- A. Women dominant society.
- B. Influence of climate on the life of people.
- C. Influence of modernization on culture and tradition.
- D. Influence of western culture on indigenous culture.



vi. Based on what you know, how would you explain the geological time scale?

- I. Representation of time based on the rock record of earth.
- II. Describe the timing and relationship of events in geologic history.
- III. Developed through the study of rock layers and the observation of fossils.
- IV. System of chronological dating that uses chronostratigraphy and geochronology.

A. I, II and III

C. II, III and IV

B. I, III and IV

D. I, II, III and IV

vii. The figure below represents



A. Genetic diversity.

C. Ecosystem diversity.

B. Species diversity.

D. Animal diversity.

viii. From the following select the three best criteria you would consider if you are to establish a poultry farm?

I. Distance to the market.

III. Climate of a place.

II. Availability of feed.

IV. Adequate source of water.

A. I, II and III

C. II, III and IV

B. I, II and IV

D. I, III and IV

ix. What do you think is the main cause of rural to urban migration in Bhutan?

A. Lack of adequate infrastructure.

C. Small land holdings.

B. Lack of economic opportunities.

D. Poor living standard in village.

x. What judgment can you make from the following figure?



- A. Dry weather is the main cause of fire disaster.
- B. Human negligence is the main cause of fire disaster.
- C. Poor preparedness is the main cause of fire disaster.
- D. Poor quality electronic appliances is the main cause of fire disaster.

Question 1B

(5 Marks)

Fill in the blanks by writing the suitable word (s). (1x5=5)

- i. Topographic map in Bhutan uses _____ and adjacent countries series.
- ii. There are _____ degrees of longitude.
- iii. The process where fine loose sediments are picked up and carried away by the wind is called _____
- iv. A sector of industry where goods are sold is called _____
- v. _____ is an empirical estimation of the future population of a place for a particular time.

Question 1C

(5 Marks)

Match each item under Column A with the items in Column B. Rewrite the correct pairs. (1x5=5)

Column A		Column B	
i	Survey	A	Karst topography
ii	Limestone	B	Thermal energy
iii	Alternative source of energy	C	Prepare maps
iv	Population change	D	Solar energy
v	Disaster	E	Birth and death
		F	Loss of life
		G	Risk to life and property

Column A	Column B
I	
II	
III	
IV	
V	

Question 1D

(5 Marks)

State true or false.

(1x5=5)

- i. Universe is continuously expanding. _____
- ii. The Equator is the only latitude that is a great circle. _____
- iii. Vegetation zones determine the climate of a place. _____
- iv. Currently we are in the Pleistocene epoch. _____
- v. Smart agriculture deals with the use of technology. _____

Question 1E

(15 Marks)

Study the extract survey map of Samtse, No. 78E/11 (Part) and answer the following questions.

- i. Give TWO importance of a topographic map. (2)

- ii. Mention any TWO methods to express scale. (1)

- iii. Define contour. (1)

- iv. Circle the correct sequence of directions to travel from Dambji to Jangsar. (1)
 A. Southwest-Southeast-Northeast C. Northeast-Northwest-Southwest
 B. Northwest-North-Northeast D. Southeast-Southeast-Southwest
- v. Study the grids 2020 and 8020 and describe the drainage patterns formed by the main river and its tributaries. (2)

- vi. The population distribution is uneven in the given topographic map. Suggest TWO ways to space it evenly. (2)

- vii. Study the area in grid 4040. Is the establishment of a large-scale agro-based industry feasible in it? Support your answer with TWO reasons. (2)

- viii. Convert 2 cm = 5 km to Representative Fraction (RF). (2)

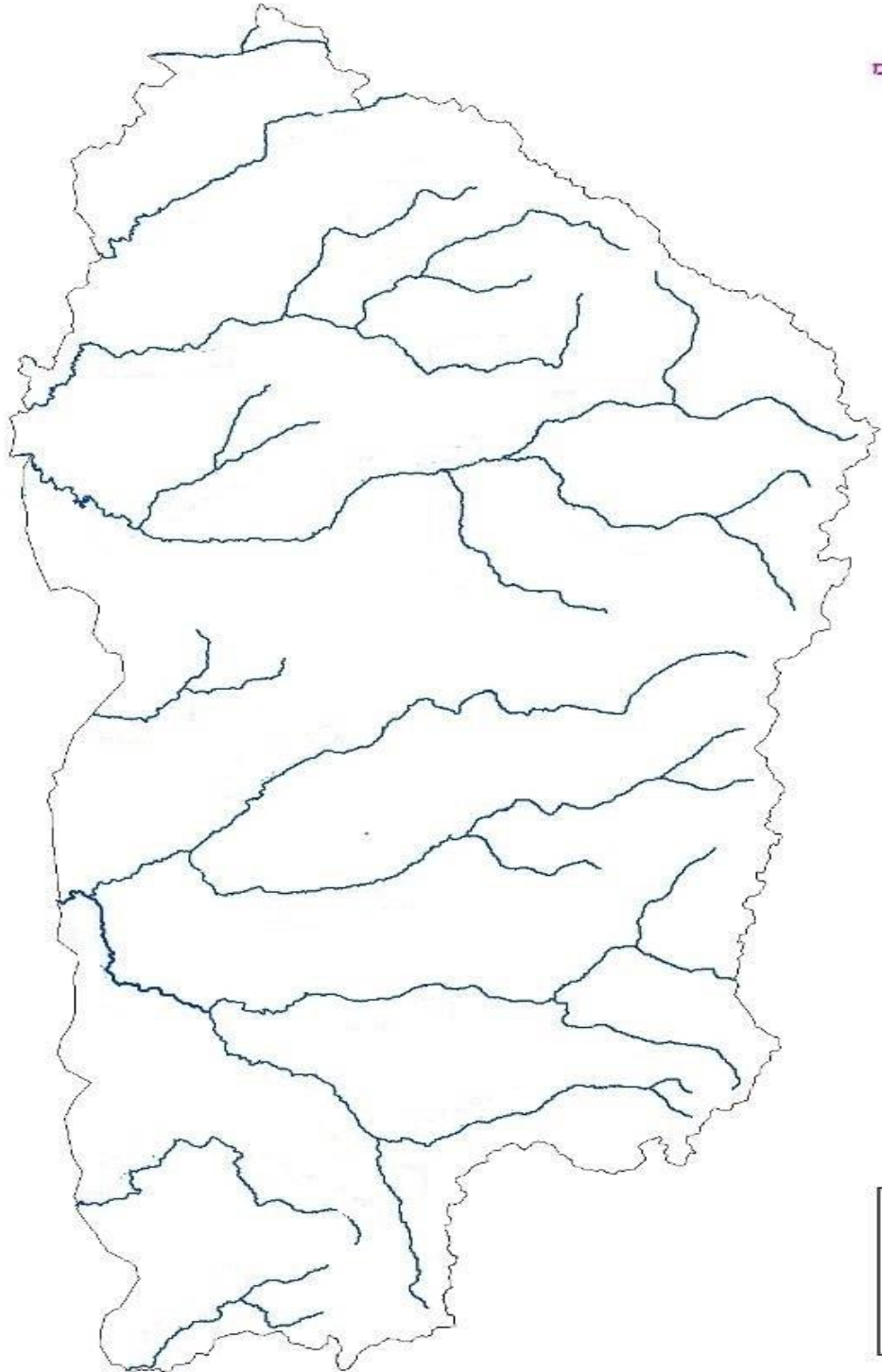
- ix. Name the primary source of income of the people living in Shomo. Give ONE reason why it might be so. (2)

Question 1F

(5 Marks)

In the outline map of Bhutan provided:

- i. Mark with (X) and name Thrumseng La and Chelela.
- ii. Name the rivers Wang Chhu and Amo Chhu.
- iii. Mark with (^^^) and name Jichu Drakey and Gangkar Puensum.
- iv. Mark with a dot (•) and name Phobjikha and Jomotshangkha.
- v. Mark with (•) and name Punakha and Bumthang.

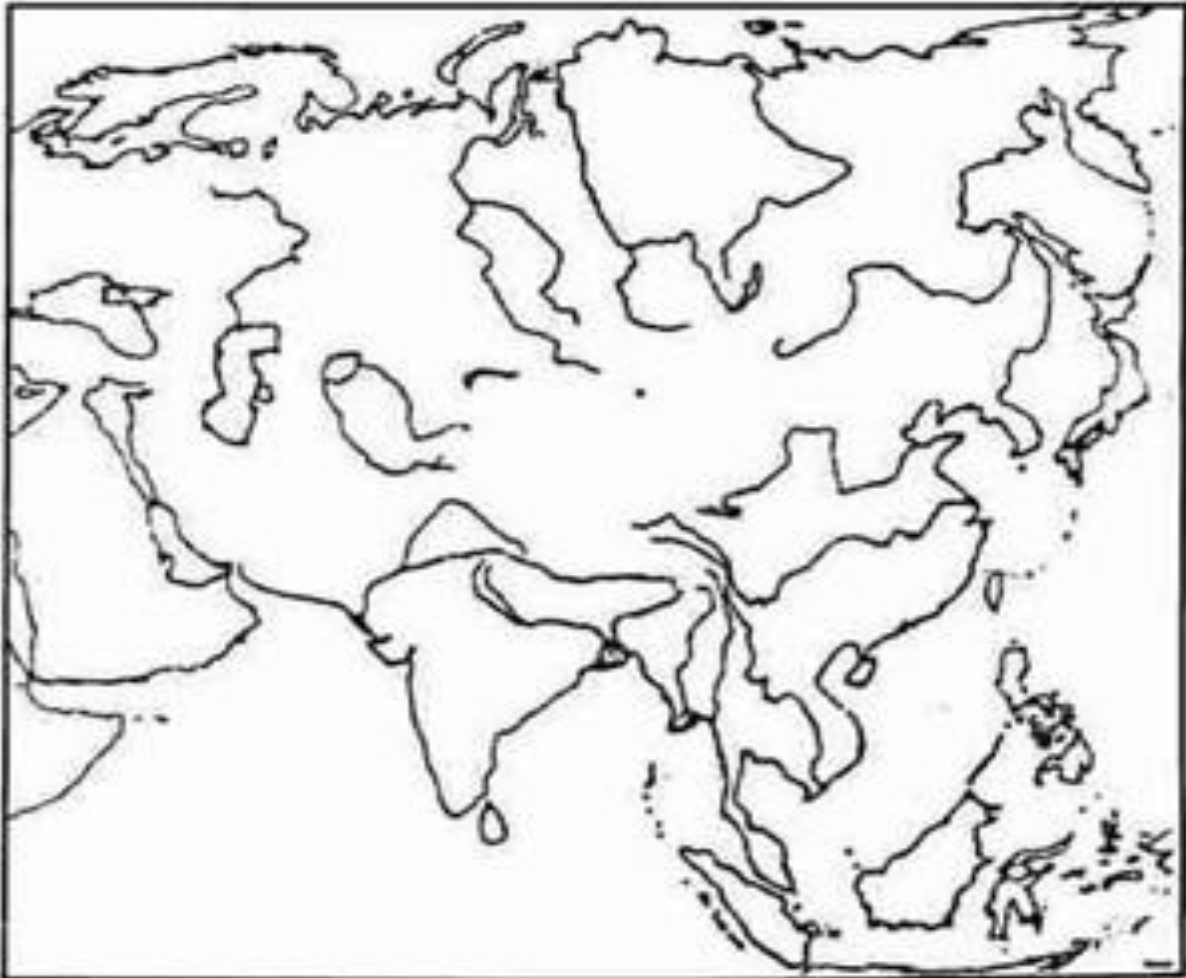


Question 1G

(5 Marks)

In the outline map of Asia provided:

- i. Shade and name the river Tigris and Lena.
- ii. Mark (^^^) and name the mountain ranges Kunlun and Zagros.
- iii. Shade and name Arabian Sea and Caspian Sea.
- iv. Mark (•) and name Jakarta and Bangkok.
- v. Shade (////) and name Northern Lowlands and Plateau of Arabia.



SECTION B (50 MARKS) ATTEMPT ONLY FIVE QUESTIONS

Question 2

(10 Marks)

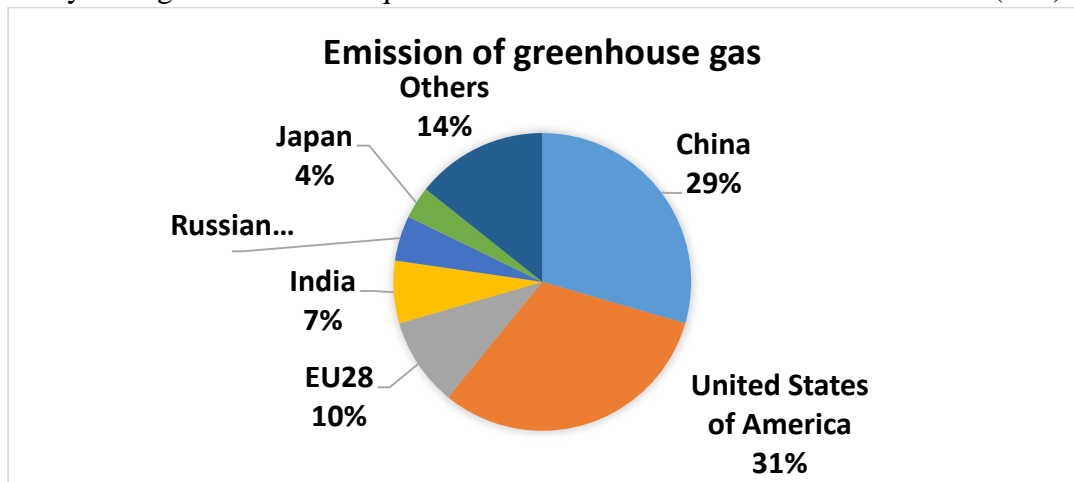
- i. Big Bang is the widely accepted theory on the origin of the universe. List at least two evidences in favour of the Big Bang Theory. (2)

ii. Assess the importance of latitude and longitude. (2)

iii. Climate has a direct impact on humans. Justify with reference to food habits, dress and agriculture practices. (3)

Food:
Dress:
Agriculture:

iv. Study the figure and answer question a and b. (1+2)



a) Which country is the highest and lowest contributor to global climate change?

b. What relation can you draw between the industrial development and emission of greenhouse gas?

Question 3

(10 Marks)

- i. Continental Drift Theory was put forward by Alfred Wagener. In his theory, he stated that continents were once part of a bigger land mass which is called Pangaea surrounded by a large body of water called Panthalassa. Do you believe in his theory? Justify with two points. (2)

- ii. Explain or draw three types of Aeolian transportation. (3)

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- iii. Design a poster to show the importance of biodiversity. (3)

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- iv. What are the most feasible alternative sources of energy in Bhutan? Justify with two points. (2)

Question 4

(10 Marks)

- i. It was reported that Human-wildlife conflict is a major challenge faced by the people of Trongsa. On 17th October, 2022, Kuensel reported that people of Drakteng and Langthel Gewogs are accused of killing two tigers which are trapped in the snares set for wild boars.
How would you solve the problem of human-wildlife conflict if you are working as a forest officer in Trongsa? Mention at least four measures. (4)

- ii. Development of industries have both positive and negative impacts. Mention at least two positive impacts of industries. (2)

- iii. Do you think population growth is a good or bad thing? Justify your stand with three points. (3)

iv. Define the term migration. (1)

Question 5

(10 Marks)

i. What could be done to minimize the risk of Glacier Lake Outburst Flood? Mention any four mitigation measures to reduce the risk of GLOF. (4)

ii. What is the main cause of the fire disaster? (1)

iii. It was reported that the birth rate in our country is decreasing every year. What are some of the measures to increase the birth rate? Mention at least three. (3)

iv. Discuss the advantages and disadvantages of Smart Agriculture. (2)

Question 6

(10 Marks)

i. Describe Climate Smart Agriculture. (1)

ii. Why do you think it is important to conserve biodiversity? (1)

iii. Explain the formation of Himalayas with reference to Plate Tectonic Theory. (2)

iv. Do you believe Karst are a result of groundwater? Justify your stand. (2)

v. There are various factors that affect the climate of a place. Which factor is the most dominant factor affecting the climate of Bumthang? Explain. (2)

vi. What will be the time at place X located at 30°W , when it is 9 AM in Bhutan? (2)

Question 7

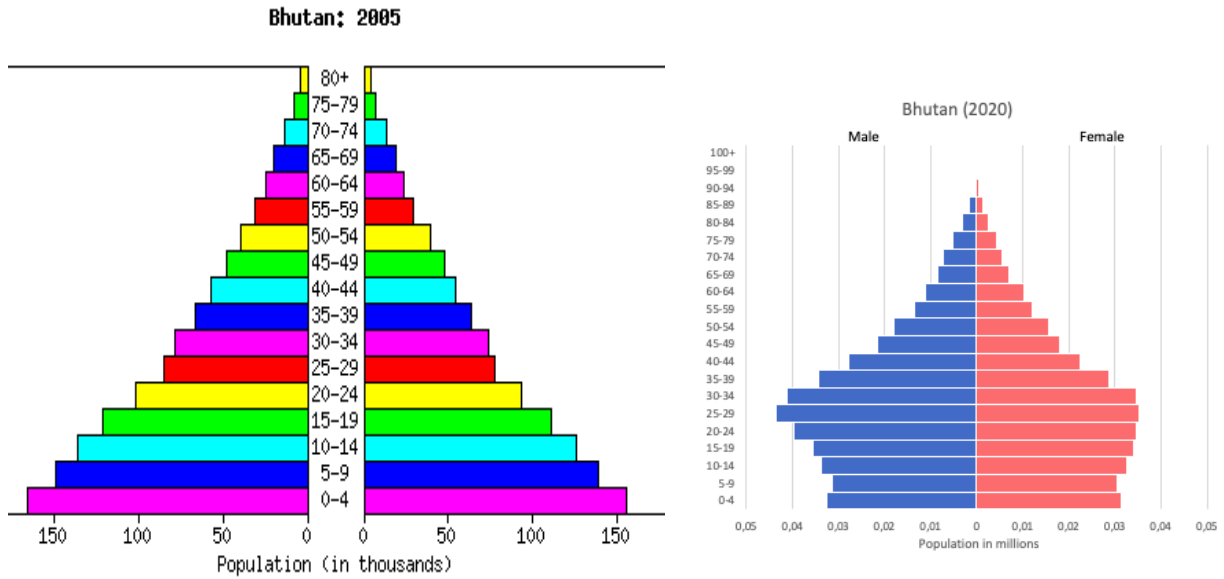
(10 Marks)

i. Distinguish between latitude and longitude. (1)

ii. What is your opinion about the Solar Nebula Hypothesis? (2)

iii. Define the term population. (1)

(The figure given below is to be used for question number iii)



iv. What conclusions can you draw from the two population pyramid given above? Mention at least three. (3)

v. What were the main differences between people living in the South and people living in Bumthang in terms of food habits? (1)

vi. Calculate the longitude of a place X (10 AM), when it is 4 AM at place Y located at 45°E . (2)

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