SECTION A [25 MARKS]
ANSWER **ALL** QUESTION

Question 1 **[15]**

For multiple choice questions, there are four alternatives: A, B, C, and D. Choose the correct alternative and circle it. Do not circle more than ONE alternative. If there is more than one choice circled, No score will be awarded.

i. Which imaginary horizontal line is used as the reference point for measuring distance of a place north or south?

A Equator
B Prime Meridian
C Tropic of Cancer
D Tropic of Capricorn

ii. The type of map that shows important physical features such as mountains, lakes, rivers and valleys is a

A political map.
B physical map.
C thematic map.
D topographic map.

iii. Which landform is present between mountains and sometimes a river runs through it?

A hill
B plain
C valley
D mountain

iv. I am colorless and found in the atmosphere, and forms water when combined with oxygen. Who am I?

A Nitrogen
B Hydrogen
C Inert gasses
D Carbon dioxide

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v. All of the following statements are **TRUE** about disaster management **EXCEPT**

A response is an immediate reaction before disaster.

B mitigation is an effort to reduce the loss of life and properties.

C recovery is restoration and reconstruction of the affected areas.

D preparedness is a measure to prepare and reduce the effects of disaster.

"Temperature decreases with increase in altitude at the rate of 1ºC for every 165 meters of ascent."

Use the statement above to answer question vi.

vi. If the temperature is 20°C at the altitude 800 meters, what would be the temperature at altitude 1047.5?

A 18.5°C

B 21.5°C

C 20.5°C

D 21.5°C

vii. Arrange the disaster management cycle in the correct order.

i. Mitigation
ii. Preparedness
iii. Recovery
iv. Response

A i, ii, iii and iv

B iii, iv, i and ii

C ii, iv, iii and i

D iv, iii, ii and i

viii. According to the population and housing census of Bhutan 2017, 21.7 % of people have migrated to urban hubs. What are the consequences of such movements?

i. fallow land
ii. gungtongs
iii. employment
iv. urbanization

A i and ii

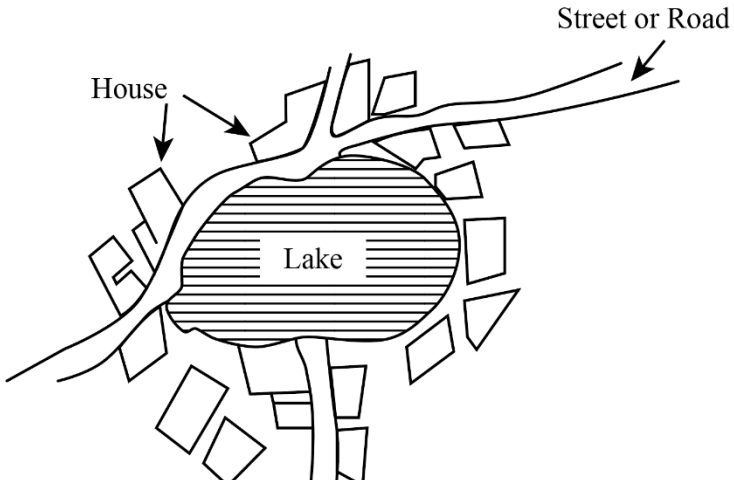
B i and iv

C ii and iii

D iii and iv

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ix. Which type of settlement pattern is shown in the picture?



A Linear settlement
B Circular settlement
C Nucleated settlement
D Scattered settlement

x. If there were 50 live born babies in a population of 5000 people, what would be the birth rate?

A 8 live births for every 1000 population
B 9 live births for every 1000 population
C 10 live births for every 1000 population
D 11 live births for every 1000 population

xi. When comparing human activities and their impact on the environment, which one is correct?

A Extensive cultivation - increase in food production
B Overuse of forest products - increase in country's economy
C Use of fossil fuels - depletion of underground coal, oil and natural gas supply
D Import of more electric cars and hybrid vehicles - increase in the rate of global warming

xii. The sudden dislocation in the earth's crust resulting in vibration on the earth surface causes destruction to lives and properties. Which natural disaster is described in the sentence?

A storm
B flood
C volcano
D earthquake

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xiii. The increase in the world's population exerts more pressure on the environment therefore, management of the natural environment has become necessary. The management of natural environment means

A proper use of land resources.

B proper use of water resources.

C proper use of resources in the environment.

D exploitation of resources in the environment.

xiv. It helps to condense water vapor into droplets of water and causes precipitation. It also reflects sun rays and moderates the temperature. The information describes

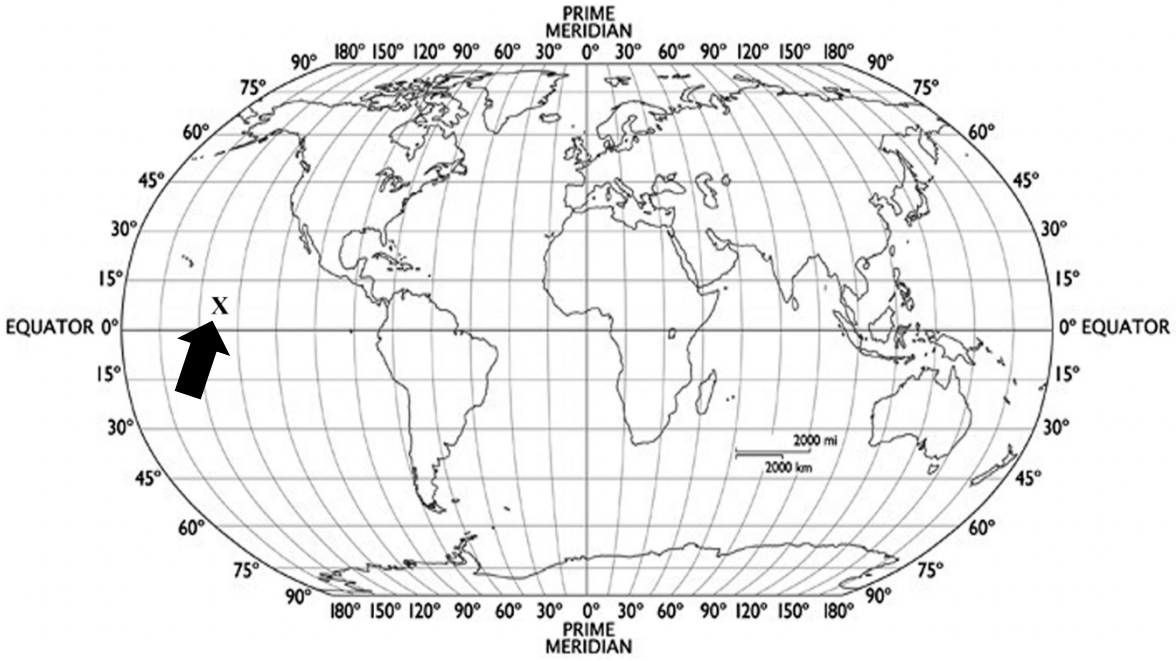
A oxygen.

B water vapor.

C dust particles.

D carbon dioxide.

xv. Study the map given below and find the latitudinal and longitudinal extent of place X.



A Latitude 0° - 15°S and longitude 135°W - 150°W

B Latitude 0° - 15°N and longitude 135°W - 150°W

C Latitude 0° - 15°S and longitude 135°W - 150°E

D Latitude 0° - 15°N and longitude 135°E - 150°E

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Question 1 b

Read the following sentences carefully. Write "T" if you think the statement is True or "F" if you think the statement is False in the space provided. **[5]**

i.	A small stream or river feeding into the main river is known as the mouth.	
ii.	The ozone layer absorbs dangerous solar radiation.	
iii.	Soil is a habitat to abundant organisms.	
iv.	Scientists can predict exactly when a volcanic eruption will occur.	
v.	The physical landscape and access to resources have an influence over the location of urban areas.	

Question 1 c

Match each item in column A against the most appropriate item in column B. Write down the answer in the space provided below: **[5]**

Column A		**Column B**	
i.	An additional day is added to February	a.	inert gases
ii.	The art of map making	b.	Savannah
iii.	Dang chu joining Puna Tsang chu	c.	Steppes
iv.	Lighting and food preservation	d.	cartography
v.	Type of grassland in central Africa	e.	Leap year
		f.	confluence
		g.	dust particles

i. _____ ii. _____

iii. _____ iv. _____

v. _____

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SECTION B [45 MARKS]
ANSWER **ALL** QUESTION

Question 2

i. If you live in the land of the Mid-night sun, how will you schedule your daily activities to ensure efficiency? **[2]**

ii. It is important to have map reading and intrepretation skills in our lives. Do you agree? Justify your answer with **TWO** reasons. **[2]**

iii. What causes scarity of water in urban areas? Give **TWO** reasons. **[2]**

iv. As an environment officer in your locality, how are you going to conserve the environment? Suggest **TWO** measures. **[2]**

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v. What do you understand by the term volcanology? **[1]**

Question 3

i. Draw contour lines to represent contour index interval, if contour interval is 40 meters. **[2]**

ii. The atmosphere comprises of different layers which are essential for life on the earth. What would happen to the earth if the layers of atmosphere were not there? **[2]**

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iii. Bhutan is considered as an agrian society, yet we depend on India for food. Do you agree? Support your answer with **TWO** reasons. **[2]**

iv. How does change in population have positive as well as negative impacts on a country. Justify your answer with **TWO** reasons. **[2]**

v. Differentiate between abiotic and biotic. **[1]**

Abiotic	Biotic

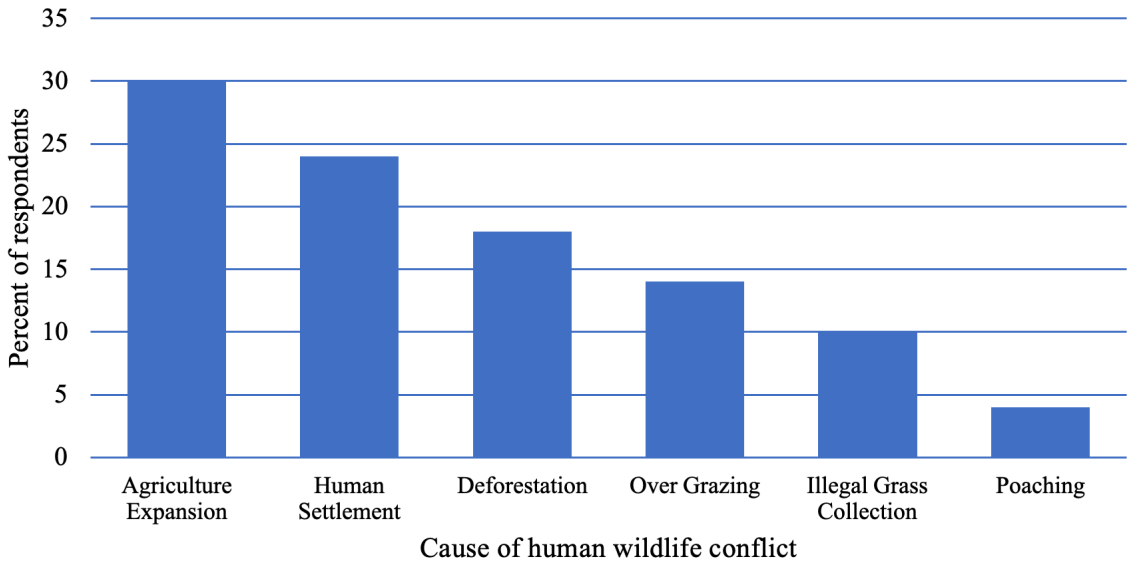
Question 4

i. A contour is an imaginary line connecting places of equal height above the sea level. Write any **TWO** characterstics of contour. **[2]**

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ii. Latiudes and longitues are imaginary lines drawn on maps. Which one do you think is important? Justify with **THREE** reasons. **[3]**

(Use the bar graph showing the causes of human wildlife conflict to anwer question iii.)



iii. Mention **TWO** main causes of human wildlife conflict. Suggest a measure to address it. **[2]**

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iv. How can you convert an infertile piece of land to cultivable land? **[2]**

Question 5

i. Karma started his journey from Bhutan at 12:00 PM and reached India at 11:30 AM. Find the longitude of India. **[2]**

ii. In the journey of a river from the source to the end, the river creates different landforms at different stages. Mention any **TWO** landforms. **[2]**

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iii. Prepare a family emergency plan for an earthquake. The plan should include different activities to be carried out before and during the disaster. **[2]**

iv. The R.F of a map is 1:100000. Convert it into statement scale (cm to km). **[2]**

v. School and home are the two places where students spend most of their time. Which one do you think has more negative impact on the environment? Why? **[1]**

Question 6

i. Oxygen is more important than nitrogen for living beings. Do you agree? Justify your answer with **TWO** reasons. **[2]**

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ii. Design a diagram to show the distinct stages of a river with respect to velocity and volume. **[3]**

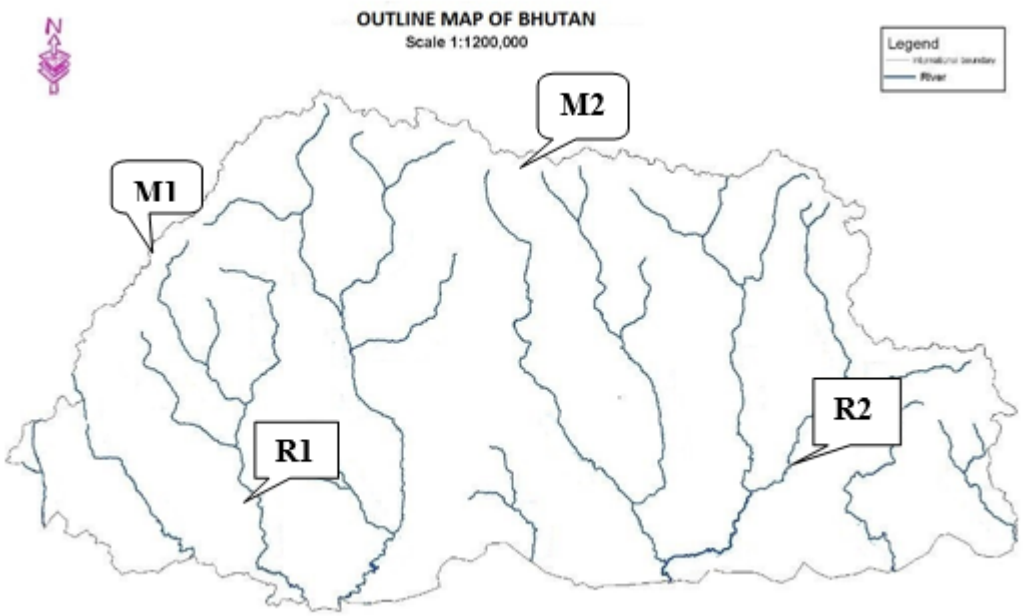
iii. Why do people from rural areas migrate to urban areas? Give **THREE** reasons. **[3]**

iv. Harzard and diaster are closely interlinked and sometimes used synonymously. Yet they are quite distinct from each other. Define the term disaster and hazard in your own words. **[1]**

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SECTION C [10 MARKS]
ANSWER ALL QUESTION

Question 7



i. In the outline map of Bhutan: **[1]**

1) Name the river R1 and R2.

R1 -	
R2 -	

2) Name the mountains **M1** and **M2**. **[1]**

M1 -	
M2 -	

3) Mark with (**X**) and name Pelela and Dochula. **[1]**

4) Mark with (●) and name Lhuntse, Samtse, Paro and Bumthang. **[2]**

5) Shade (/////////) and name densely and sparely populated Dzongkhags. **[1]**

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ii. In the outline map of Asia:

1) Mark with (●) and name India ,Thailand, Sri Lanka and Nepal. **[2]**

2) Shade (/////////) and name Caspain sea and Yellow sea. **[1]**

3) Mark (**R**) and name river Ganga and Tigris. **[1]**

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