



ཤེས་རིག་ལྟན་འགག་
སུའི་གཟུང་འབྲིང་རིམ་སློབ་གྲྭ་གོང་མ།



MOTITHANG HIGHER SECONDARY SCHOOL THIMPHU THROMDE

“Every child is **inspired** to learn and **empowered** with **wisdom** to excel in life”

Subject: Geography

Class: X

Time: 2hrs

Full Marks: 80

Name: Roll No. Class: Sec:

Invigilator's initial

FOR MARKER'S USE ONLY						
SECTION	QUESTION	WEIGHTING	AWARD	CHANGE	MARKER'S INITIAL	
Section A	Question 1	15				
Section B	Question	10				
	Question	10				
Section C	Question	10				
	Question	10				
	Question	10				
Section D	Question 10	5				
	Question 11	5				
	Question 12	5				
Total	Award		Change		MARKER'S INITIAL	

Read the following directions carefully:

1. Attempt NINE questions. Section A and D are compulsory.
2. Attempt 2 questions from Section B and 3 questions from section C.
3. The intended marks for questions or parts of questions, are given in brackets.
4. No marks will be awarded for any extra questions attempted. If extra questions are attempted, the last question in the sequence of your answer script will be cancelled by default.
5. If your writing cannot be read marks cannot be awarded.

MHSS/geography/X/2020/TRIAL

Section B (Attempt any TWO questions)

Question 2.

- a) Today no one doubts that the earth is spherical in shape. Give two evidences to prove that the earth is spherical in shape. [2]

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- b) The Earth's speed of rotation decreases as you go north and south of the equator. State any TWO effects of this. [2]

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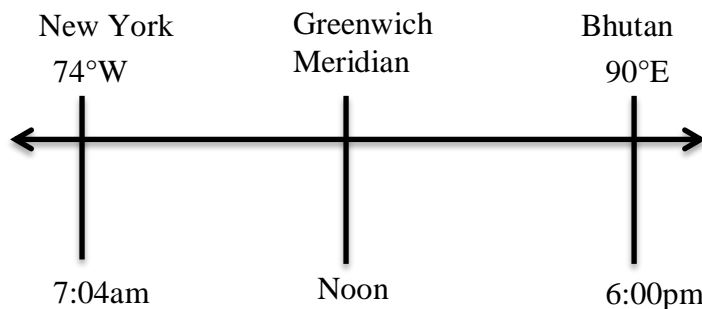
- c) Write an advantage of Standard Time? [1]

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- d) Study the diagram below carefully and answer the following question.



Explain the time difference between the three places in the above diagram. [3]

iii. The sailors cannot always take advantage of the Great Circle Route.

iv. All Meridians of longitude are Great Circles.

b) What is the time and day at a certain place on 20°W longitude when it is 2am on Thursday at a place 11°E longitude. [2]

c) *“Eratosthenes measurement of the circumference of earth was roughly 48,000km, 8000km more than the actual measurement”.*
Give two reasons why he could not get the exact measurement. [2]

- d) With the help of a diagram show the midnight sun between Arctic Circle and the North Pole. Mention the date. [2]

Question 4.

- a) Fill in the blanks with appropriate word(s) [1x3]
- i. On June 21st the sun is directly over the Tropic of Cancer. At that time the northern hemisphere experiences the _____ season.
 - ii. If the shape of the earth were _____, the time of sunrise would be everywhere at the same time.
 - iii. _____ eclipse gives evidence that the earth is spherical in shape.

- b) The inclination of the earth's axis has important consequences. Give any two. [2]

- c) When the time is 9am at 90°E, calculate the longitude of a place where the local time is 6am. [2]

d) Using a diagram show how all places north of Arctic Circle have 24hours of darkness on December 22nd. [2]

e) Define circle of illumination. [1]

Section C (Attempt any THREE questions)

Question 5

a) Listed below are the challenges faced by the Bhutanese farmers in practicing Commercial farming. Propose ONE do able measure each. [1x4]

	Challenges	Measures
1	Farm Labour Issue	
2	Pest causing damage and losses	
3	Access to market for the surplus produce	
4	Man-made disasters	

b) Bhutan's balance of trade has always been unfavourable. Suggest two ways to improve it. [2]

c) In Bhutan, 700 hundred glaciers have retreated rapidly that the country in 50 years may see ice-free lakes and this according to experts is largely fuelled by climate change. (BBS, 16th November, 2020). What are some of the risks associated with these rapidly melting glaciers? Give any TWO dangers. [2]

d) Not all places are evenly populated. Give two reasons for this uneven distribution of population. [2]

Question 6

a) The rate of urbanization in Asia is 19.4, where as it is 22.3 in Bhutan. (PHCB 2005 and 2017). What are some of the problems that you foresee from this increasing rate of urbanization. Mention any three. [3]

b) If you were to take farming as your profession, what measures would you adopt to increase yield? Give any two. [2]

c) Define spatial interaction. Give one advantage. [2]

d) Using biogas in the kitchen have two great advantages over LPG in Bhutan. What are they? [2]

e) People in Laya and Lunana have expressed interest in biogas but they were told it is not feasible in their region. Give a reason why they were told so. [1]

Question 7

- a) State **TRUE or FALSE** for the following statements. [3X1]
- i. The Central Place Theory tries to explain the relationship between the size, functions and distribution of towns and settlement. (.....)
 - ii. Samdrup Jongkhar town is an example of an educational hub. (.....)
 - iii. Green belt zones are created to combat the very serious problem of urban sprawl. (.....)

- b) Differentiate between pre-modern and modern industries giving two points of difference each. [2]

- c) Can hydroelectricity be replaced by the alternative sources of power? Give two reasons to support your answer. [2]

- d) The mountainous ecosystem with its great variations in altitude within the small latitude range has proved to be of great advantage to Bhutan. Explain. [2]

e) Who is a tourist?

[1]

Question 8

a) The Bhutan Board Products factory is located in Tala. Give two reasons why Tala was chosen as its location. [2]

b) Discuss three changes brought about to the natural environment by people's activities. [3]

c) Mass communication and conversation are two types of communication. Which one according to you is a better means of communication? Give two reasons. [2]

d) Write down two advantages road transport have over air transport in Bhutan. [2]

e) Name the plant from which desho is made. [1]

Question 9

a) The population replacement rate for Bhutan is 2.1 whereas over the last 12 years (2005 – 2017), our population grew at the rate of 1.3% per annum. (PHCB, 2017).

i. Give one impact of this slow population growth? [1]

b) Give three reasons why the environmental problems in Bhutan are not very severe. [3]

c) Following the “Middle Path” developmental philosophy can ensure the protection of our bio diversity. Do you agree? [2]

d) In modern times, traders have been able to carry out their businesses smooth and efficiently. Think of atleast two of such facilities available for our traders. [2]

e) Industries are important for economic growth of any country. Give two reasons to support the statement. [2]

Section D (Compulsory: To be attempted by all candidates)

Question 10.

In the outline map of Asia provided:

[5]

- a) Mark with thick lines and name the mountain ranges Altai and Elbruz.
- b) Name the rivers Lena and Tigris.
- c) Shade and name South China Sea and Caspian Sea.
- d) Mark with dots and name Singapore and Taiwan.
- e) Shade and name Temperate Grasslands and Cold Temperate.

Question 11.

In the outline map of South Asia provided:

[5]

- a) Mark with thick lines and name Aravalli Hills and Eastern Ghats.
- b) Mark and name the rivers Indus and Narmada.
- c) Shade and name the Deccan Plateau and Thar Desert.
- d) Mark 'T' over a tea-growing region in the North-east of India and 'C' over coffee growing region in the South-West of India.
- e) Put a thick dot and name Mumbai and Delhi.

Question 12.

In the outline map of Bhutan provided:

[5]

- a. Mark with a triangle (Δ) and name Monla Karchung and Jiwuchu Drakey.
- b. Name the rivers Wang Chu and Ngreya Ama Chu.
- c. Put a cross (X) and name Tremola and Trumseng La.
- d. Mark with a thick dot and name Manas and Lhuntse Dzong.
- e. Mark 'S' where slate is mined and 'D' where dolomite is mined.