

SECTION A

This section contains questions from Topography Map.

Answer ALL questions.

Question1

Study the extract of the survey Map of Bhutan, No. **78E/11** and answer the following Questions: **(15 Marks)**

i) Define vertical interval of the given topographical map. [1]

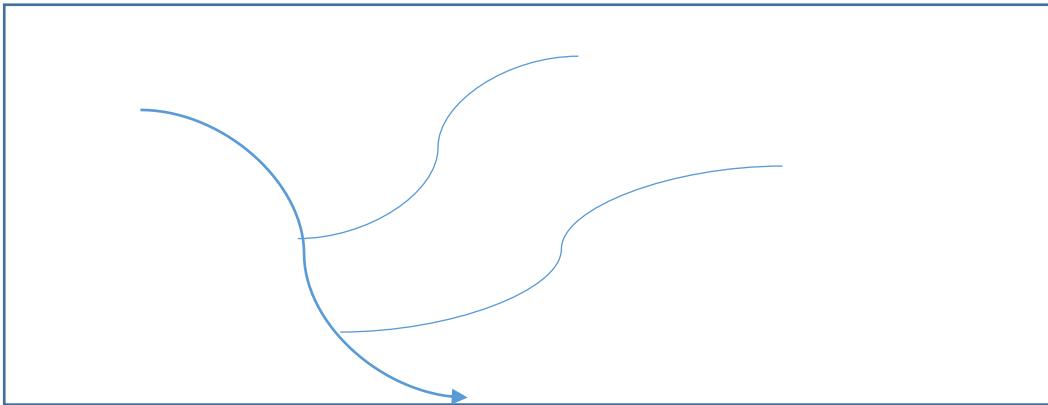
ii) At what interval are the index contours marked in the map? [1]

iii) Draw a symbol for the following: [1]

- i. Depression
- ii. Cutting

iv) Name the drainage pattern shown below:

[1]



v) The distance between X and Y on the map is 6cm. What will be the actual distance if the scale of the map is 1 cm = 20 km?

[2]

vi) If you were given a choice between the grid square 4070 and 6020, in which place would you prefer to settle? Why? Give **TWO** reasons.

[2]

vii) Compare the occupation of the people living in grid square 4080 and 6020. [2]

viii) Imagine that a place that falls within the grid square 4070 is pestered by all sorts of social problems. If you were the Thimphu Thrompon, what new changes would you adopt to reduce the social problems? Suggest any **TWO**. [2]

ix) Pema who lives in Simtokha has been invited by her friend Kapi who lives in Motithang for a dinner. In which direction does Pema need to travel so as to reach Motithang?

[1]

x) If the RF is 1: 200,000, what will be the statement scale? [2]

SECTION B

**This section contains THREE questions from
the *Principles of Geography and World Studies*.**

Answer any TWO questions.

Question 2

a) Define Earth's Axis? [1]

b) Agriculture in the Prairies is completely different from that of Bhutan. Mention any **TWO** points of difference. [2]

c) Give **TWO** evidences to prove that the earth rotates from west to east. [2]

d) "Cocoa is one of the crops grown in the equatorial region". If you were to cultivate cocoa in Bhutan, what THREE main conditions must be fulfilled? [3]

e) Should the government encourage lumbering in Bhutan? Justify with **TWO** reasons. [2]

Question 3

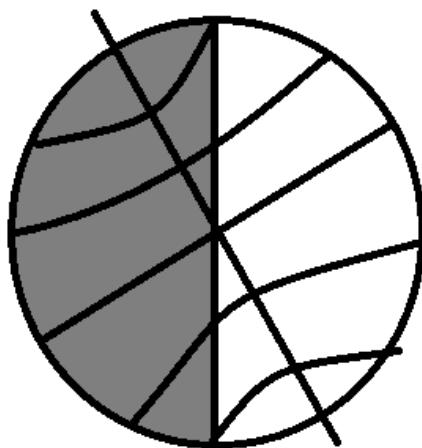
a) “Prairies have a fertile soil, high temperature and plain topography”. Despite having the three conditions, some crops like rice are not cultivated in this region. Suggest **TWO** reasons to explain the above cause. [2]

b) If you were a lumberjack, which season would you prefer to work and why? [2]

c) Under which climatic zone does Bhutan fall? Give **TWO** reasons [2]

d) Time in Bhutan is 10 AM. At the same time, the time in India is 9.30 AM, while the time in Bangkok is 11 AM. Explain the difference in time for these places. [2]

e) Study the diagram below and answer the following questions.



SUN

i) What season will the Northern Hemisphere experience?

[1]

ii) Where will the vertical rays of the sun fall at this time of year?

[1]

Question 4

a) Many things show that the earth is a round object. Explain how the eclipse on the moon furnishes a proof of sphericity of the earth. [2]

b) The methods of lumbering differ in different regions. Mention **TWO** factors that determine the methods of lumbering. [2]

c) "The parallels of latitude serve a very useful purpose". Mention **TWO** uses. [2]

d) "Learning about different regions of the world has many benefits". Mention **TWO** useful Knowledge that you have gained from world studies. [2]

e) Calculate the longitude of a place where the time is 5 PM, when it is 10 PM in Bhutan. [2]

SECTION C

This section contains FIVE questions from *Geography of Bhutan*.

Answer any THREE questions.

Question 5

a) Categorize the following as traditional trade and modern trade. [2]

Exchange of rice with brocade

Exchange of goods in large quantities

Limited trading partners

Likely to exploit natural resources

b) Identify the farming practices and mention **TWO** characteristics for each of the farming practices shown in the picture below. [2]



c) Mr. Tashi is a young entrepreneur who is planning to set up a furniture house. But he is not sure where to set up his business and approaches for your advice. What factors would you consider before recommending a site for Tashi so that he can generate maximum profit? Mention any **TWO** points. [2]

d) Hydro-electricity and solar energy are two of the sources of power used in Bhutan. Mention **TWO** similarities and **TWO** differences between them. [2]

e) Mr Karma is a forest officer. He has observed the people of his gewog making excessive use of forest resources. Therefore, he has decided to call them for a meeting. Write **TWO** most important points that he would put up for discussion in the meeting?

[2]

Question 6

a) Why do you think Bhutan's environmental problems are not severe as compared to many other countries in the world? Give **TWO** reasons [2]

b) Creating environmental awareness among the farming community is more important than providing modern technologies. Do you agree? Give **TWO** reasons. [2]

c) Hydroelectricity is gaining popularity in Bhutan with many new project established. However, precautions must be taken to ensure its sustainability. What are the **TWO** risks in today's context that may determine the sustainability? [2]

d) Goods and Services tax (GST) is an indirect tax charged on the supply of goods and services. GST has been introduced in India to boost their export and limit import. In context to the above, what would happen to Bhutan's trade balance? Justify giving **ONE** reason.

[2]

e) Our people have been familiar with the use of iron since the ancient days. Provide **TWO** evidences to validate the statement. [2]

Question 7

a) A certain place has a good transportation system, sufficient quantities of natural resources, and good supply of water and hydro-electricity. What type of town do you think is likely to develop in that place in future? [1]

b) Ap Dorji, who is in his late seventies, doesn't allow his grandson to use mobile phone as he believes that it affects the children's behavior and their studies. Suggest **THREE** ways to convince Ap Dorji that if mobile phone used properly, has many advantages.

[3]

c) Provide **TWO** points of difference between the use of LPG (liquefied petroleum gas) and bio gas as cooking fuels.

[2]

d) The table below shows hypothetic statistics of the water test. Refer the table to answer the following questions:

PLACE	F.C counts for 100ml of water
A	Nil
B	20/100ml
C	320/100ml
D	160/100ml
E	4080/100ml

i. Which place has the most polluted water? [1]

ii. Why do you think the water is polluted? Give **ONE** reason.

[1]

e) Rural-urban migration has become a serious problem in Bhutan. To solve this current problem, should the government resort to introducing strict regulations to the people? Justify with **TWO** reasons.

[2]

Question 8

a) What is mass media? [1]

b) Tourism has only negative impacts on our country. Do you agree? Support your answer with **TWO** reasons. [2]

c) The ministry of Agriculture has placed a temporary ban on the import of certain vegetables which has led to the shortage of banned vegetables in the market. If you were the Agriculture Minister, what initiatives would you implement to encourage the farmers to increase their local products? Write **TWO** initiatives.

[2]

d) Attractions is one of the most important factors that promote tourism. What scope do you see in your area that would attract the tourists .Write any **TWO**.

[2]

e) “The low level of literacy is a hindrance to commercial farming in Bhutan.” Do you agree with the statement? Justify with **THREE** points. [3]

Question 9

a) In which vocation are the following devices used? [1]

- i. Lathes.
- ii. Bellows

b) Explain **TWO** characteristics of dispersed settlements. [2]

c) "Scientists who study the ozone layer have discovered a hole in this protective cover above the Antarctic." Examine and give **TWO** reasons why the ozone layer is depleting.

[2]

d) With a population size of 753,947(2013), do you think family planning is necessary in Bhutan? Justify with **TWO** points. [2]

e) Squatter settlements have become an eyesore in the towns of Bhutan. Suggest **THREE** possible measures to solve the problem of squatter settlement? [3]

SECTION D
This section contains Map work on Asia, South Asia and Bhutan
Answer ALL THREE questions.

Question 10

[5]

In the outline map of Asia provided:

- a) Mark with thick line and name the mountain ranges: Zagros and Yoma.
- b) Shade and name the rivers: Mekong and Yangtse.
- c) Mark with a thick dot (•) and name Singapore and Cambodia.
- d) Shade and name Shan Plateau and Tarim Basin.
- e) Shade and name Yellow Sea and Caspian Sea.

Question 11

[5]

In the outline map of South Asia provided:

- a) Name the rivers Brahmaputra and Tapti.
- b) Draw \triangle and name the Khasi hills and Satpura range.
- c) Shade and name Bolan Pass and Khyber Pass.
- d) Write 'S' over a sugarcane producing region and 'R' over a Rice producing region.
- e) Mark with a thick dot and name Delhi and Mumbai.

Question 12

[5]

In the outline map of Bhutan provided:

- a) Mark thick line and name Nyera Ama Chhu, Pho chhu and Kholong chhu.
- b) Mark with 'X' and name Dochu la, Thrimshing la and Pelela.
- c) Mark 'PD' over Pemagatshel Dzong and 'DD' over Daga Dzong.
- d) Mark with thick dots and name Paro and Gomtu.

Map of Asia

This map is to be used for Question no. 10



Map of South Asia
This map is to be used for Question no. 11



Map of Bhutan

This map is to be used for Question no. 12

