

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]**

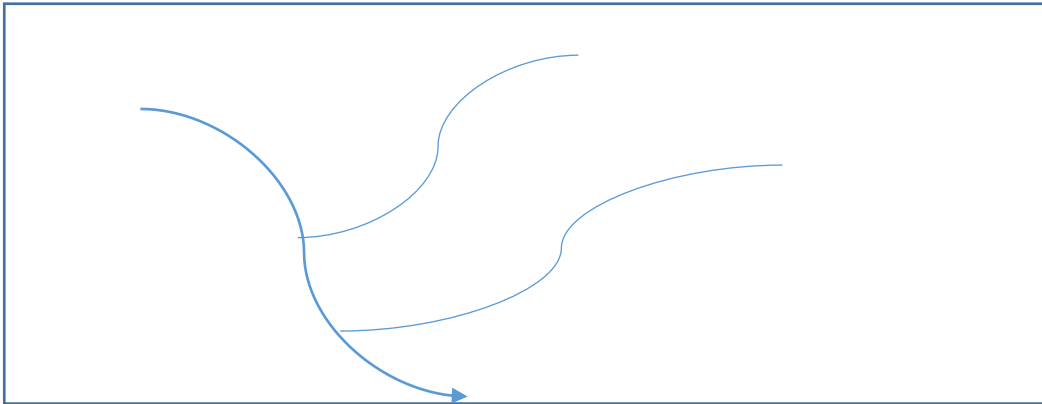
- iii) Draw a symbol for the following: **[1]**

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]

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- 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]

[illegible]

Question 3

- [2]

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- [2]

[illegible]

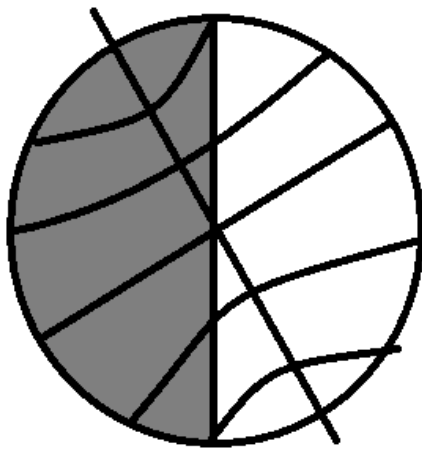
- c) Under which climatic zone does Bhutan fall? Give **TWO** reasons [2]

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- 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]

[illegible]

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]

[illegible]

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

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- 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 brocades
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]

[illegible]

- [illegible]

- [illegible]

- 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]

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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]

[illegible]

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

[illegible]

-
- This image shows a blank sheet of white paper with horizontal ruling lines. The lines are evenly spaced and extend across the width of the page. There are no margins, text, or other markings on the paper.

- [illegible]

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

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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]

[illegible]

- 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 hypothetical 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]

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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]

[illegible]

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]

- [2]

[illegible]

- [2]

[illegible]

- 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]

[illegible]

Question 9

- a) In which vocation are the following devices used? [1]
- i. Lathes.
 - ii. Bellows

[illegible]

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]

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[illegible]

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 ▲ 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

