

GEOGRAPHY

(Three hours and a quarter)

*(The first 15 minutes of the examination are for reading the paper **only**.*

*Candidates must **NOT** start writing during this time).*

Answer **Question 1 (compulsory)** from **Part I** and any **SEVEN** questions from **Part II**.

The intended marks for questions are given in brackets [].

PART I- (Compulsory) (30 Marks)

Question 1

- i) (a) Name **TWO** varieties of apples grown in Bhutan. [1]
- (b) To what group of workforce does a person earning his living in a foreign country fall? [1]
- ii) Mention **FOUR** factors that affect the location and growth of urban centers. [2]
- iii) Define Communication. [2]
- iv) What is meant by culture? [2]
- v) Write **TWO** ways to increase the life expectancy of people in Bhutan. [2]
- vi) Using the information given below, calculate the intensity of cropping: [2]

Net Sown Area- 10ha
Total/ Gross Cropped Area- 20ha
- vii) Write **FOUR** examples of cultural centers that attract a large number of tourists in Bhutan. [2]
- viii) Write **TWO** ways to improve road transportation in Bhutan. [2]
- ix) Why does urbanization result in the growth of slums and squatter settlements? Give **TWO** reasons. [2]
- x) Industrialization leads to the economic development of a country. Justify the statement with **TWO** reasons. [2]

This booklet contains 8 pages

- xi) Give **ONE** reason each for the following:
 - a) Vital Registration System is not a reliable source of population data.
 - b) Formation of National Environment Commission was a good step.
- xii) Write **TWO** merits and **TWO** demerits of increased use of internet by our youth. [2]
- xiii) Wind energy is a reliable and sustainable source of energy. Do you agree? Give **TWO** justifications to support your answer. [2]
- xiv) Is air transport the most appropriate mode of transport for Bhutan? Give **TWO** justifications to support your answer. [2]
- xv) What in your opinion would be the most appropriate measures to preserve and promote our cultural heritage? Suggest **TWO** measures. [2]

PART II (70 Marks)

Answer any **SEVEN** questions.

Question 2

- a) Define Mineral Based Industries. [1]
- b) Write **TWO** factors that have resulted in the preservation of the natural environment of Bhutan. [2]
- c) State **ONE** significance of feeder road. [1]
- d) Draw a model of the Concentric Zone Theory of E.W.Burgess and label the four concentric zones. [3]
- e) Bhutan Broadcasting Service plays an important role in enriching the social and cultural life of the Bhutanese people. Do you agree? Justify your stance with **THREE** points. [3]

Question 3

- a) Screening a film in a cinema hall is a means of mass communication. Write TRUE or FALSE. [1]

- b) Which one of the following is a Philately service provided by the Bhutan Post?
A Fax mail.
B Cargo Service.
C Souvenir Sheet.
D Express Mail Service.
- c) Write **TWO** examples of road under the Ministry of Agriculture. [2]
- d) How does Environmental Impact Assessment contribute to sustainable development? Write **THREE** ways. [3]
- e) The production of crops in Bhutan largely depends on the use of high yielding variety of seeds and the nutrient management method. Do you agree? Justify your answer with **THREE** reasons. [3]

Question 4

- a) Define Urban Sprawl. [1]
- b) Availability of labour is an important factor influencing the location of an industry. Justify the statement with **TWO** reasons. [2]
- c) Write **TWO** advantages of renewable energy resources over non renewable energy resources. [2]
- d) Give a reason each for the following: [2]
(i) Minerals buried deep underground are not considered as resource.
(ii) It is good to practice crop rotation.
- e) One of the environmental concerns raised by the government is; the demand for livestock product leading to deterioration of grazing pastures in future. If you are a farmer, what steps would you take, to curb the above problem? Suggest **THREE** ways. [3]

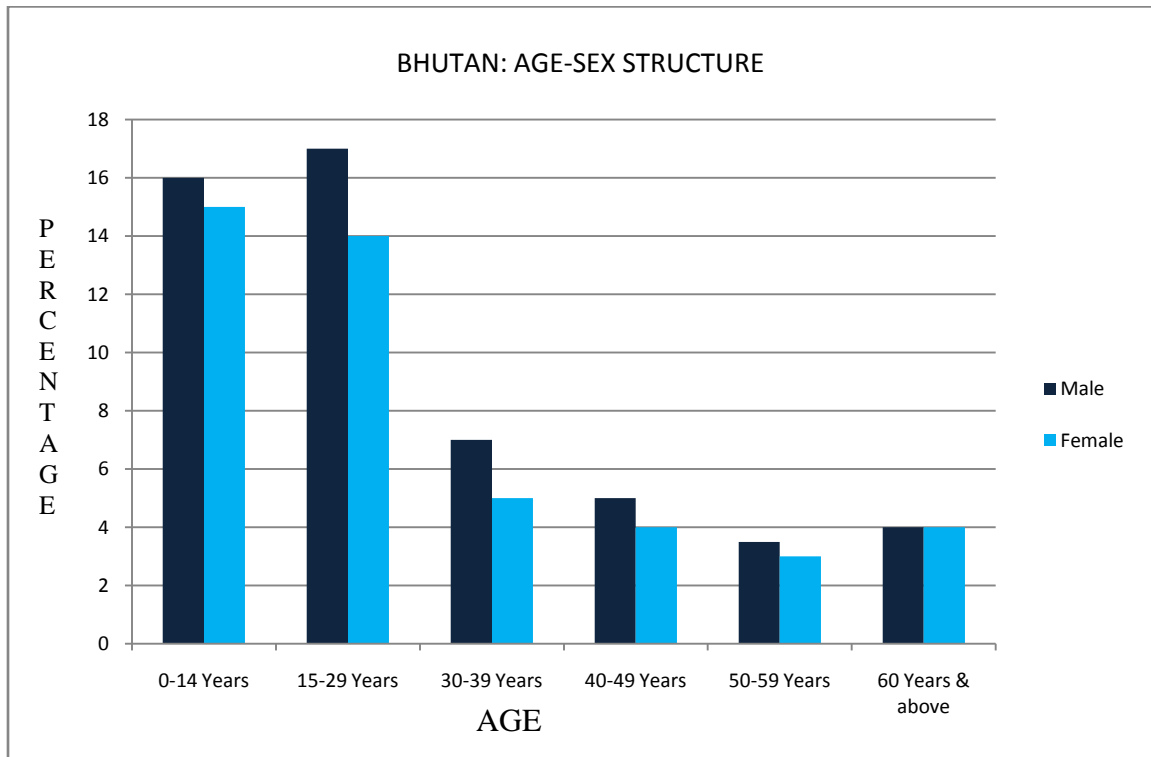
Question 5

- a) Write another name for dispersed settlement. [1]
- b) Name the place and the Dzongkhag where Bhutan Agro Industry and Bhutan Fruit Products Pvt. Ltd are located. [2]
- c) Define Urban Road. [2]
- d) List **TWO** significances of Local Urgent Mail Service of the Bhutan Post. [2]

- e) Supposing yourself as a Dairy Development Officer, suggest **THREE** ways to improve dairy production in Bhutan.

Question 6

- a) Name the oldest bank in Bhutan. Which year was it established? [2]
- b) Define conventional and non conventional sources of energy. [2]
- c) Explain the importance of obtaining flying rights for air transport. [2]
- d) The graph below represents the age-sex structure of population of Bhutan as per the PHCB-2005. Study the diagram and answer the questions that follow:



- i) What are the **TWO** most striking features of age composition of Bhutan? [2]
- ii) This type of age composition will have negative implications on our economy. Do you agree? Give **TWO** justifications to support your answer. [2]

Question 7

- a) Name the most popular rope way in Bhutan. In which Dzongkhag is it located? [2]
- b) List **TWO** features of Semi-nomadic settlement. [2]
- c) Write any **TWO** functions of the Royal Monetary Authority of Bhutan. [2]
- d) Is radio a better means of mass communication than News paper? Justify your answer with **FOUR** reasons. [4]

Question 8

- a) In which year was Kuensel launched as a national newspaper? [1]
- b) Write **TWO** examples of financial services provided by Bhutan Post. [1]
- c) Tabulate **THREE** differences between natural growth of population and positive growth of population. [3]
- d) Why is Bhutan considered as one of the ecological wonders of the world? Give **TWO** reasons. [3]
- e) The formation of nucleated settlement depends more on availability of resources than the social factors. Do you agree? Give **TWO** reasons to support your answer. [2]

Question 9

- a) Name the declaration of 1990 which articulated the approach to sustainable development. [1]
- b) Paro has grown into an urban center in the past few years. Justify the statement with **TWO** points. [2]
- c) Write **TWO** advantages and **TWO** disadvantages of ropeways in Bhutan. [2]
- d) The total population of Bhutan in 2005 was 634982. At the growth rate of 1.3% per annum, what would have been the population of Bhutan in 2006? [3]
- e) Hydro power is one of the largest revenue generators in Bhutan. Suggest **TWO** ways to enhance the development of hydro power sector on a sustainable basis to maintain its continued contribution to the government's revenue. [2]

Question10

- a) Define fecundity. [2]
- b) Distinguish between rural settlement and urban settlement in terms of size and density of population. [2]
- c) The development of industrial and mining sector cannot be achieved without defying the concept of sustainable development. Do you agree? Give **TWO** justifications to support your answer. [4]
- d) Shortage of teaching professionals in Bhutan is still a concern. Suggest **THREE** ways to address this problem. [3]

Question 11

On the outline map of Bhutan provided, mark the following as instructed:

- a) Shade and name the Dzongkhag where Jigmeling Industrial Estate is proposed. [1]
- b) Write 'CC' over major coal producing company of Bhutan. [1]
- c) Shade and name Wangchuck Centennial Park. [1]
- d) Mark 'JBC' over the National Jersey Breeding Centre of Bhutan. [1]
- e) Name and mark with bold line, two Dzongkhags connected with the nation's first national highway. [1]
- f) Name and mark 'NS' over the eastern Dzongkhag where nucleated settlement is seen. [1]
- g) Write 'BM' over a place in southern Bhutan, where B-mobile started its service in 2004. [1]
- h) Write 'LP' over an urban center with the largest population. [1]
- i) Mark the places with dotted arrow through which the snowmen trek passes. [1]
- j) Name and mark 'BA' over a Dzongkhag where Batpalathang Airport is situated. [1]

Important instruction: *Remove the map from the question booklet and attach it with your answer script.*

BHSEC/06/2013
TO BE USED WITH Q No.11

INDEX NO:

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GEOGRAPHY BHSEC 2013
MAP OF BHUTAN

FOR OFFICIAL USE ONLY - ALTERNATIVE No:

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