

PART I

Compulsory: To be attempted by all Candidates

Question1

(30 Marks)

Answer each question in the space provided:

- i) State **TWO** initial steps for the conduct of Environmental Impact Assessment. [2]

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- ii) “The country’s target to harness 10,000 MW of hydropower by 2020 got a huge boost with the Government of India giving the green signal for the construction of four hydropower projects.” Name these **FOUR** hydropower projects which would be undertaken as joint venture projects. [2]

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iii) Briefly explain the concept of natural growth of population. [2]

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iv) This year the monsoon caused massive damage to the road network in most parts of the country. Name any **TWO** effects of this damage on our living. [2]

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v) List **ONE** significance of our rich cultural heritage. [1]

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- vi) Briefly explain how urban sprawl and topographical factor leads to conurbation. [2]

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- vii) What would be the impact on natural environment if the government changes the existing tourism policy of “*High Value, Low Impact*” to a control free policy? Examine any **TWO** negative impacts. [2]

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- viii) Suggest **ONE** measure to improve the quality of human resource in Bhutan. [1]

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ix) The domestic air service in Bhutan has not picked up even after five years of its establishment in 2011. Recommend any **TWO** ways to fully develop this service. [2]

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x) What is meant by Total Fertility Rate? [1]

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xi) Briefly explain any **TWO** roles of agriculture in the Bhutanese economy. [2]

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xii) Traditionally one of the problems of poultry farming was rearing of indigenous breed of poultry that proved to be poor layers. Write **ONE** strategy adopted by the government to help our farmers. [1]

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xiii) There is an unequal distribution of industries in Bhutan with Chukha having the highest number of large scale industries than any other Dzongkhags. Give **FOUR** reasons for concentration of industries in Chukha. [2]

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xiv) Pema had been using regular mail services for the last ten years to send documents to his friends and family members. However, today he is using courier services provided by the Bhutan Post. Write down any **TWO** advantages of availing the new service as compared to the earlier one.

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- xv) The development of urban centres in a country will help to promote social integration. Do you agree? Justify with **TWO** reasons. [2]

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- xvi) Has telecommunication in Bhutan enhanced developmental activities in the country? Justify your answer with **TWO** reasons. [2]

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- xvii) Forest fire not only poses threat to lives and properties but also results in the loss of rich biodiversity of the country. As an official in the conservation unit, what measures would you propose to the government to prevent degradation of our natural environment from forest fire? Write any **TWO** measures. [2]

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PART II (70 Marks)

Answer any **SEVEN** questions.

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

Question 2

- a) Name the National Highway along which the country's first and the only underground highway tunnel is constructed. [1]

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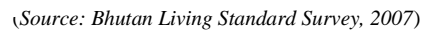
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- [4]

- i) Write any **TWO** striking features of literacy in Bhutan.
- ii) Suggest **TWO** ways to improve the national female literacy rate at par with the male.

[illegible]

c) Do you think cultural heritage which is passed down from generations to generations by our fore fathers will be well preserved in the coming years? Justify your answer giving **FIVE** reasons.

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Question 3

- a) Define wood based industries. Name any **TWO** wood based industries in Bhutan. [2]

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- b) Rural–urban migration is the most prominent type of migration in Bhutan. Do you think this is a good trend? Justify your answer with any **FOUR** points. [4]

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c) Dzongkhags like Gasa and Lhuntse are the least urbanized Dzongkhags in the country as per the Population and Housing Census of Bhutan, 2005. Formulate any **FOUR** measures to develop these Dzongkhags into more urbanized Dzongkhags. [4]

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Question 4

- a) Lack of literacy among the farming community is one of the problems of Bhutanese Agriculture. Briefly explain this statement with an example. [2]

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- b) Establish any **THREE** relations between population growth and global warming. [3]

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- c) Despite the stiff resistance from the conservationists, the government has started with the construction of 56 km Shinghar-Gorgoan road for the benefit of the public. Assess the steps taken and write **THREE** merits and **TWO** demerits of this planned road.

[5]

[illegible]

Question 5

- [5]

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b) In line with the overall decentralization policy of the Royal Government, the Human Resource development plans were instituted in the civil service of our country. Mention any **TWO** responsibilities of Human Resource development programmes in Bhutan. [2]

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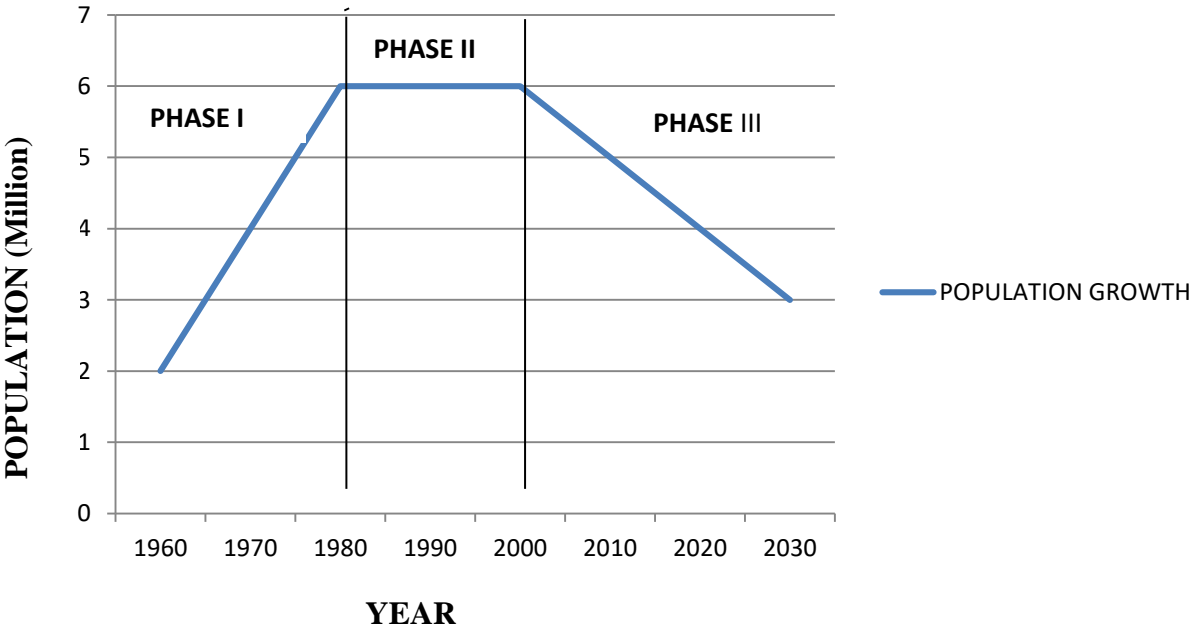
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c) Use the graph below to answer the questions that follow: [3]



- i) Name the concepts of population growth shown in the **Phase I and III** of the graph.
- ii) State **ONE** feature of the growth of population in **phase II**.

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Question 6

- a) When was the international EMS service introduced in Bhutan? Name any **TWO** countries with which the country has the largest traffic of International EMS. [2]

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- b) The table below shows the area of paddy cultivation, production and its yield in Kg per acre for some Dzongkhags. Study the table and answer the question that follows:

Analyze the yield and production of Samtse and Paro and give **TWO** reasons for the highest yield of paddy in Paro despite its less production and cultivation area. [4]

- c) Although trekking was introduced in 1978, the tourism industry would like to attract more trekkers from other countries. Write **FOUR** ways to attract more foreign trekkers in Bhutan.

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Question 7

- a) Briefly explain any **FOUR** merits of Hydropower Projects in Bhutan.

[4]

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b) i) With reference to Nature conservation in Bhutan, answer the following questions: [2]

I) Define material culture.

II) Define sustainable development.

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ii) Write **TRUE or FALSE** for the statement given below: [2]

I) Khaling Wildlife Sanctuary is the smallest protected area in Bhutan.

II) Bumdeling Wildlife Sanctuary is a habitat for Black Naked Cranes in central Bhutan.

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c) One of the environmental concerns of the government is that the development of industrial and mining sectors may result in the degradation and pollution of the environment. Design **TWO** strategies to address this concern. [2]

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Question 8

a) Bhutan is striving to achieve self sufficiency in terms of food crops and vegetables. Suggest any **THREE** ways to accomplish this objective. [3]

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b) Compare and contrast between print media and electronic media with at least **THREE** differences and **TWO** similarities.

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c) Has the use of mobile phone affected the business of Bhutan Post? Justify with **TWO** reasons.

[illegible]

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- a) How has the market accessibility affected the distribution of industrial development in our country? Write **TWO** points. [2]

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- b) In 1990, the country embraced the concept of sustainable development as the path of economic development. Explain **FOUR** reasons why this concept was taken up as an important model of development. [4]

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c) Has the increase in farm production contributed to the development in the areas of road transport in the country? Support your answer with **FOUR** justifications. [4]

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Question 10

- a) Bhutan Post is the sole agent for philatelic services. List **FOUR** advantages of this service. [4]

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b) Complete the table below with the information related to industry: [2]

Sl.No.	Name of the industry	Location	Major Activity
1.	Bhutan Fruit Products Pvt. Ltd.	(a)	(b)
2.	(c)	Dala, Chukha	(d)

a.....

b.....

c.....

d.....

c) The rate of urbanization for Thimphu is one of the highest in the South Asia. Give **FOUR** reasons to support the statement. [4]

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Question 11

[10 x 1 = 10]

In the outline map of Bhutan provided, **mark** and **name** the following as instructed:

- a) 'FSR' over the Dzongkhag with sex ratio is in favour of female as per the PHCB, 2005.
- b) 'BT' over the Dzongkhag in the west where an urban centre has developed partially due to Break-in- Transport Theory.
- c) 'CTP' over the only town in Bhutan which has developed with a complete town planning.
- d) 'BC' over a place which has a tertiary institution that develops Human Resource in the areas of Business and Commerce.
- e) Write 'BoBL' over a place where the head office of the Bank of Bhutan is located.
- f) Mark with a dot and name the only airport in the southern part of Bhutan.
- g) 'DR' over the Dzongkhag which has the highest density of roads in Bhutan.
- h) Locate and write 'UWICE' over a Dzongkhag where Ugyen Wangchuck Institute for Conservation and Environment is established.
- i) 'CDM' over the Dzongkhag which has the first Clean Development Mechanism Hydropower Project.
- j) 'TC' over a dzongkhag with the latest connection of Tashi Cell service.

Map of Bhutan

This map is to be used for Question no. 11

