

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 question are given in brackets. [].

PART I - COMPULSORY (30 marks)

Question 1.

- i) List down any **FOUR** problems of under – population. [4x ½ =2]
- ii) Differentiate between fertility and fecundity. [1+1=2]
- iii) When and where was Druk Air first operated in the kingdom. [½ +½ +1=2]
- iv) The PHCB projected the population of 6,34, 982 in 2005. When the geographical area is 38,394 sq.km and the total arable of the land is 3071.52sq.km, calculate the following:
 - a) Arithmetic density
 - b) Physiological density [1+1=2]
- v) Enumerate any **FOUR** factors that determine the location and growth of urban centers in Bhutan. [4x ½ =2]
- vi) Explain any **FOUR** geographical conditions required for the cultivation of rice. [4x½ =2]
- vii) Describe any **TWO** factors that have contributed to the location of BBPL in Tala. [1+1=2]
- viii) Examine **FOUR** problems faced by Bhutan post. [4x½ =2]
- ix) Tabulate any **FOUR** differences between rural nucleated and rural dispersed settlement. [4x½ =2]
- x) How do poultry farms maintain high productivity? [4x½ =2]

- xi) Identify any **FOUR** negative impacts of tourism industry on social and natural environment. [4x½=2]
- xii) Contrast any **FOUR** ways of transmitting information by BBS and Kuensel. [4x½=2]
- xiii) “**Human resource forms an integral part of development**”. Support the above statement giving **two** suitable reasons. [1+1=2]
- xiv) Describe any **FOUR** factors that have helped in the preservation of rich natural environment. [4x½=2]
- xv) Why is Bhutan designated as one of the ten global “hot spots” for the conservation of biological diversity? Give any **FOUR** reasons. [4x½=2]

PART II (70 MARKS)

Answer any **SEVEN** questions

Question 2.

- a) Define “Maternal Mortality Rate”. [1]
- b) Explain the three fundamental sources of statistics on population. [1+1+1=3]
- c) Outline any **FOUR** important steps taken up by the government to reduce the pressure of rural – urban migration. [4x½=2]
- d) Analyze any **FOUR** crucial problems associated with increased life expectancy in the modern times. [4x½=2]
- e) List any **FOUR** salient features of CBD. [4x½=2]

Question 3.

- a) “The spatial distribution of population in Bhutan is highly uneven”. Discuss giving **THREE** suitable reasons. [1+1+1=3]
- b) Illustrate the trends of population growth of Bhutan over the last 40 years. [1+1=2]

- c) Identify any **FOUR** types of rural settlement. [4]
- d) Why is tourism the highest foreign exchange earning tertiary industry? Give **THREE** reasons. [1+1+1=3]

Question 4.

- a). i) Describe any **TWO** advantages of migration. [1+1=2]
- ii) According to the concentric zone theory, which areas of the towns or cities are usually occupied by the new migrants? Give **TWO** reasons. [1+1+1=3]
- b) List any **FOUR** characteristics of Agro- based industries. [4x^{1/2}=2]
- c) What do you mean by Eco – tourism? [1]
- d) Assess any **FOUR** importance of Air Transport. [4x^{1/2}=2]

Question 5.

- a) How can the countries maintain the optimum level of population? [4x^{1/2}=2]
- b). i) Define “irrigation”. [1]
- ii) Analyze any **FOUR** dangers of over watering the fields. [4x^{1/2}=2]
- c) Name one exotic bird. [1]
- d) “Bhutanese dietary ingredients mainly composed of diary products”. Explain giving **FOUR** reasons. [4x^{1/2}=2]
- e) Discuss **TWO** advantages and **TWO** disadvantages of hydropower over other forms of energy resources. [4x^{1/2}=2]

Question 6.

- a) Name any **TWO** high yielding varieties of rice introduced in Bhutan. [^{1/2}+^{1/2}=1]
- b) “Walking the extra mile” is a popular slogan used by Agriculture Ministry. Interpret the slogan. [1+1=2]
- c) What according to you are the important steps taken up by the government for human resource development? Mention at least **FOUR** important steps. [4x^{1/2}=2]

- d. i) What is Urban Road? Name the dzongkhag with maximum length of urban road. [1+1=2]
- ii) "Road transport in Bhutan enjoys monopoly". Explain the statement giving **TWO** suitable arguments. [1+1=2]
- e) What are the daily activities of Kuensel Corporation? [$\frac{1}{2}+\frac{1}{2}=1$]

Question 7.

- a) Distinguish between "farm road" and "forest road". [1+1=2]
- b. i) Name the only insurance company in the country. [1]
- ii) Where is it's headquarter located? [1]
- c) BBS launched television service in June 2, 1999. What were the purposes of introducing television? [$4 \times \frac{1}{2}=2$]
- d. i) What is Telecommunication? [1]
- ii) In what ways telecommunication revolutionize the communication system? [1+1=2]
- e) What is the full form of 'RSEBL'? [1]

Question 8.

- a) How are transport and industry interrelated? Give any **FOUR** reasons. [$4 \times \frac{1}{2}=2$]
- b) Distinguish between "**LUM**" and "**EMS**". [1+1=2]
- c. i) Define "**Biodiversity**". [1]
- ii) Identify any **TWO** measures taken up by the government to preserve biodiversity. [1+1=2]
- d) Explain any **THREE** economic importance of cultural heritage. [1+1+1=3]

Question 9.

- a) i) Name **ONE** national park and the Dzongkhag in which it is located. [$\frac{1}{2} + \frac{1}{2} = 1$]
- ii) “Forest is our life vein”. Justify giving **THREE** reasons. [1+1+1=3]
- b). i) What is conservation? [1]
- ii) Design **THREE** strategies that would help in the conservation of our cultural heritage. [1+1+1=3]
- c) What are the ways to achieve sustainable agriculture? State any **FOUR** ways. [4x $\frac{1}{2}$ = 2]

Question 10.

- a) What are the current underlying causes of threat to Bhutan’s environment? Explain any **THREE** threats. [1+1+1=3]
- b) Name the oldest mass media. When was it launched? [2]
- c) i) Name the **FOUR** types of coal used as fuel. [4x $\frac{1}{2}$ = 2]
- ii) Mention **TWO** conditions necessary for the occurrence of coal. [$\frac{1}{2} + \frac{1}{2} = 1$]
- d) “Development of industries brings in problems”. Support this statement giving **TWO** strong reasons. [1+1=2]

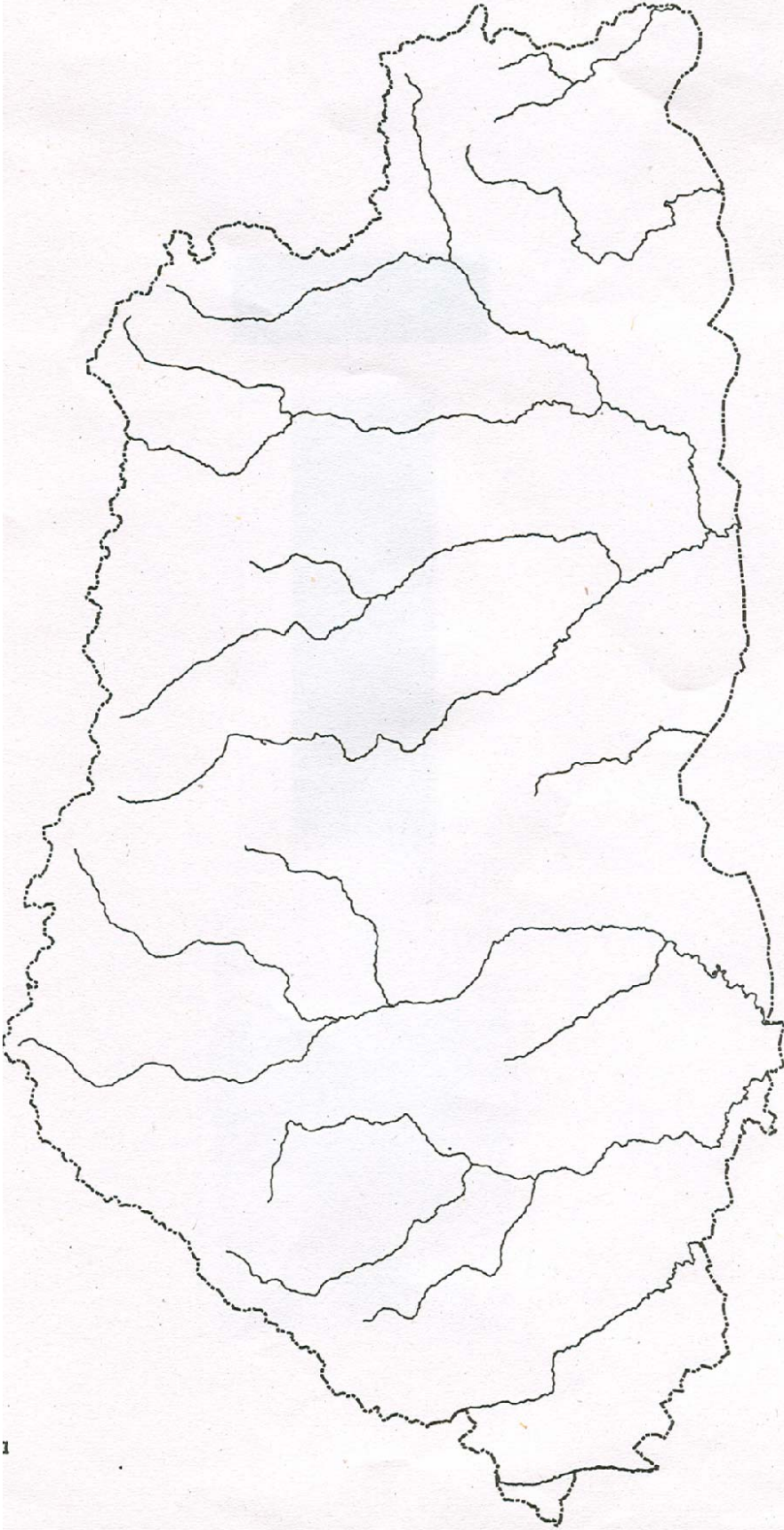
MAP WORK

Question 11.

On the outline map of Bhutan, mark and name the following:

- a) Mark and name the dzongkhag having the highest out- migration and in – migration. [2x $\frac{1}{2}$ =1]
- b) Write ‘A’ over the largest apple producing Dzongkhag. [1]
- c) Mark and name the National Mushroom centre. [1]

- d) Mark and name the artificial insemination centre. [1]
- e) Write 'SMT' over proposed Sunkosh Multipurpose Project and 'THP' over existing Tala Hydropower Project. [$\frac{1}{2} + \frac{1}{2} = 1$]
- f) Mark and name the largest Chemical industry. [$\frac{1}{2} + \frac{1}{2} = 1$]
- g) Mark with the dotted line and name the largest trekking route. [$\frac{1}{2} + \frac{1}{2} = 1$]
- h) Mark and name the two terminal points of lateral highway. [$\frac{1}{2} + \frac{1}{2} = 1$]
- i) Write 'BMS' over the last Dzongkhag to be connected by B- mobile service. [1]
- j) Shade and name the Dzongkhag that is popularly known as "Cultural Heartland" of Bhutan. [1]



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