PART I (30 MARKS) ANSWER ALL QUESTIONS

Question 1

Answer bri	efly each	of the	following	questions:

a)	What do you mean by Population Structure?	[1]
b)	The 1985 Breeding Policy of Bhutan recommended the use of exotic breeds of poultry. Name TWO exotic poultry breeds.	[1]
	Princely a service princely account	
c)	Name the type of rural settlement depicted in the diagram below and write TWO salient features.	[2]
	Lhakhang	
	Houses	
	Road	

d)	Expressways are considered as the superior highways in Bhutan. Mention TWO features of expressways which make them superior to other roads.	[2]
e)	The preservation of Bhutan's rich biological diversity can be attributed to two factors. List them.	[2]

	Nutrient management methods constitute a very important component of modern farming technology. List TWO nutrient management methods adopted by the Bhutanese farmers.	f)
UR [Bhutan Post provides many products and services to its customers. Give FOUR examples of philately products.	g)
UR		g)

h)	A recent survey revealed that with the use of biogas we can now save up to three hours of household chores. Suggest TWO ways to encourage the use of biogas as	[2]
	an alternative source of energy in the villages.	
i)	Why do slums and squatter settlements develop with urbanization? Give TWO reasons.	[2
	Teasons.	

Compute the Child Dependency Ratio from the data given below in the table: Age-Group (in Years) Percentage of Population 0 - 14 33.1 15 - 64 62.3 65 and above 4.7
0 - 14 33.1 15 - 64 62.3
15 - 64 62.3
65 and above 4.7

k)	Dorji, an entrepreneur, prefers to establish his cement factory in Gomtu, Samtse rather than in Gasa. Considering the factors that affect the localization of industries, give FOUR reasons favoring his preference.	[2]
1)	Retirement of a large number of civil servants from the government service will have negative impacts if there is no proper succession planning. With reference to this, state ONE significance of succession planning.	[1]

m)	A carefully prepared Master Plan for the development of different sectors of economy has manyfold advantages. Write down ONE advantage of planned development as against unplanned development.	[1]
n)	Pema is a resident of Thimphu. She prefers LUM over ordinary mail services provided by Bhutan Post for sending and receiving important documents. Justify her preference with TWO reasons.	[2]

o)	Tourism in Bhutan is distinctly urban in character rather than spread across the country. Do you agree? Justify your answer with TWO reasons.	[2]
p)	Improving public transport system is the only effective solution to the growing traffic congestion in Thimphu. Justify with TWO reasons how can an efficient public transport system help in solving traffic congestion problem?	[2]

q)	The Government is in the process of finalizing and endorsing Bhutan's Cultural Policy document that encompasses all aspects of our cultural heritage. Propose TWO recommendations for the preservation of our non-material cultural heritage.	[2]
	PART II (70 MARKS) ANSWER ANY SEVEN QUESTIONS	
Ques a)	Stion 2 What do you mean by density of population?	[1]
b)	What are the different ways of expressing density of population?	[1]

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c)	One of the important responsibilities of the National Environment Commission of Bhutan is the formulation of national environment strategy. Mention TWO other responsibilities entrusted to the Commission.	[2]
d)	The Royal Education Council has already initiated textbook-less curriculum for some subjects. This demands the use of internet facilities by the students. Write THREE advantages and THREE disadvantages of making internet facility accessible to students in the schools.	[3]

e)	The Royal Bhutan Helicopter Services can play a major role in providing	[3]
	transport services in our country. Do you agree? Justify your stand with THREE arguments.	

Question 3a) Frequency of mail de

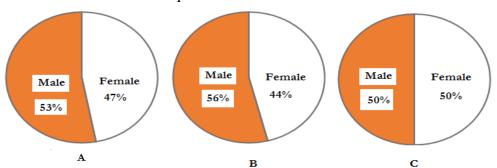
a)	Write any TWO factors affecting the frequency of mail delivery in Bhutan.	[2]
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1.		[2]
b)	Roads falling within the designated urban boundary of a municipality are categorized into four types. Write their names.	[2]
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c)	Bhutan exported eggs worth more than Nu.0.17 million in its first consignment to Kolkata, India. Mention THREE ways to increase egg production so that we can export more	[3]
	export more.	
<u> </u>		
d)	Even though there was a steady expansion in the number of industries after 1961, the industrial development took place in a relatively slow pace in Bhutan. Give THREE reasons for it.	[3]

b)	Questica)	
Sustainability of private newspapers in Bhutan is challenging. Suggest TWO ways to make this business sustainable.	on 4 National Parks and Wildlife Reserves in Bhutan are interconnected by paths which allow free movement of wildlife. What are such paths called?	
	-1	
[2]	[1]	

c)	It has become a matter of urgency for Bhutan to make appropriate investments in alternative renewable energy other than hydroelectricity. Do you agree? Justify your answer with THREE reasons.	[3]
1		

d) Study the pie diagrams showing the sex composition of countries A, B and C given below and answer the questions that follow:



i. Which country has the best sex ratio? Why do you think so?

[2]

ii. Infer the sex ratio of country 'C'. [2]

Question 5 What do you mean by density of road? Write a formula to calculate it. a) [2] One of the negative impacts of migration on the place of destination is over [2] b) population. Write TWO negative impacts of migration on the place of origin.

c)	Give THREE other examples to show that climate change is affecting Bhutan.	[3]
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d)	Qualitative and quantitative aspects of human resources are vital for all round human development. Write THREE recommendations to enhance the quality of human resource in Bhutan.	[3]
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Ωμος	tion 6	
a)	State any FOUR factors affecting the location and growth of urban centres in Bhutan.	[2

	otaining flying and landing right	of international air travel is the cos s. In Bhutan even domestic air
	latively expensive. Why? Give	
		_
	of the information given below	
population gr	of the information given below owth rate during the periods 201 rojected Population of Bhutan	
population grable: F	rojected Population of Bhutan	
Table: F	rojected Population of Bhutan Population	
Table: F Year 2010	rojected Population of Bhutan Population 695,822	

d)	With the advent of smart phones, mobile phone communication is considered as the best means of communication. Do you agree? Give THREE justifications in support of your answer.	[3]
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Question 7 a) Nuclear energy can be obtained from radioactive minerals. Write ONE problem [1] associated with using nuclear energy. b) Banking and non-banking financial institutions are essential to promote the [2] growth of the Bhutanese economy. Write ONE similarity and ONE difference between banking and non-banking financial institutions. [3] How can television promote modern farming in Bhutan? Write THREE ways. c)

d)	Poaching and illegal wildlife trade poses a threat against wildlife conservation in Bhutan. As a consultant of World Wildlife Fund (WWF), recommend FOUR strategies to curb poaching and illegal wildlife trade.	[4]

on any TWO advantages of using technology in agriculture. onment and wildlife conservation is increasingly becoming difficult due to forests for various developmental activities. Do you agree? Support your with TWO justifications.
f forests for various developmental activities. Do you agree? Support your

c)	As per RSTA records, from July 2015 to June 2016, eighty-six people died due to motor vehicle accidents. Write THREE ways to make road transport system safer in Bhutan.	[3]

d)	Tabulate THREE differences between agglomerated settlement and isolated settlement.	[3]
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Ques a)	tion 9 Write any TWO features of Druk Path Trek.	[2]
		[2]
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b)	Urban sprawl is a serious problem resulting from urbanization. Write FOUR measures to check urban sprawl.	[4]

c)	One of the initiatives taken by the government for nature conservation is to make Environmental Impact Assessment (EIA) mandatory before carrying out any developmental activity in Bhutan. In relation to this, write any FOUR advantages of EIA.	[4]

Question 10 Describe mineral based industry. Name any TWO mineral based industries in a) [2] Bhutan. The Agriculture Ministry has been installing electric fencing to combat human-[2] b) wildlife conflict. Write TWO benefits of this noble initiative to the farmers of Bhutan.

c)	Despite a small population in Bhutan, an increased rate of population growth is an environmental concern for the Royal Government of Bhutan. Why? Give TWO	[2]
	reasons.	
d)	Urbanization is a curse rather than a boon in Bhutan. Do you agree? Justify your stand with FOUR arguments.	[4]

Owas	45an 11
_	e outline map of Bhutan provided, mark and name the following as instructed:
a)	'CBR' over the Dzongkhag with highest Crude Birth Rate as per the PHCB, 2017.
b)	'ET' in the western region that has developed into an educational town.
c)	Shade and name the Dzongkhag where rice production is maximum as per Bhutan RNR Statistics, 2015.
d)	Shade and write 'WL' over the Dzongkhag where wet land is minimum.
e)	'SMP' over the place where the Sunkosh Multi- Purpose Project is proposed to be located.
f)	'DCCL' over the place where Dungsam Cement Corporation Limited is located.
g)	'BDBL' over a place where the head office of Bhutan Development Bank Ltd is located.
h)	Mark and name a place where the first bank in the country was established.
i)	'LPD' over the dzongkhag with the least population as per PHCB, 2017.
j)	Shade and write 'PWS' over the region where Phibsoo Wildlife Sanctuary is located.

[10]

