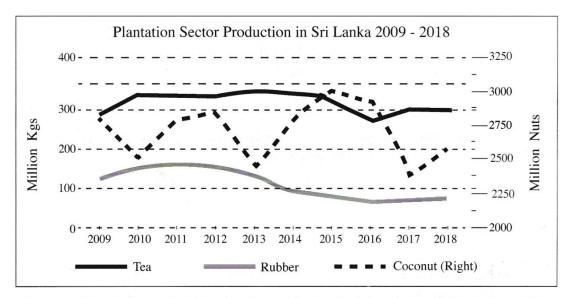
සියලු ම හිමිකම් ඇවිරිනි / மුඟුப් பதிப்புரிமையுடையது / $All\ Rights\ Reserved$] இ ලංකා විභාග දෙපාර්තමේන්තුව ලී ලංකා විහ**ලි ලෙංකා විභාග 'උඋපාර්තමේන්තුව**්ත இலங்கைப் பரீட்சைத் திணைக்களம்இலங்கைப் பூடனத்த திணைக்களம் இலங்கைப் பரீடசைத் திணை Department of Examinations, Sri Lanka Do**இலங்கைய**x **பரியசைத்**S **திணைக்களம்**nt ලංකා විභාග දෙපාර්තමේන්තුව මු ලංකා විභාග දෙපාර්තමේන්තුව ශී ලංකා විභාග දෙපාර්තමේන් ාස්ශාස්ව பரீட்சைத் திணைக்களமஇலங்கைப் **Department of Examinations., Sri Lanka** අධායන පොදු සහතික පනු (සාමානා පෙළ) විභාගය, 2019 දෙසැම්බර් கல்விப் பொதுத் தராதரப் பத்திர (சாதாரண தர)ப் பரீட்சை, 2019 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2019 භූගෝල විදහාව I, II புவியியல் I, II 12.12.2019 / 0830 - 1140 Geography I, II පැය තුනයි අමතර කියවීම් කාලය මිනිත්තු 10 යි மூன்று மணித்தியாலம் மேலதிக வாசிப்பு நேரம் - 10 நிமிடங்கள் Three hours Additional Reading Time -10 minutes Use additional reading time to go through the question paper, select the questions and decide on the questions that you give priority in answering. Index No.: Geography I * This question paper comprises 40 questions. * Answer all questions on this paper itself in accordance with the instructions given for each question. • From the answers given in the parentheses, select the answer that suits the blank in each question from No. 1 to 5 and write it on the dotted line. mass. (1% / 5% / 10%) 2. ...AUSTRALIA.... is the continent located entirely in the southern hemisphere. (South America / Africa / Australia) 3. It was .. ARISTOTLE..... who presented an earliest view about the distribution of world climate. (Ptolemy / Aristotle / Eratosthenes) 4. 'Norin 10' is a high yielding variety of WHEAT. (Paddy / Wheat / Cotton) 5. An agro technological park of Sri Lanka is located at GANNORUWA (Gannoruwa / Angunakolapelessa / Matale) Read each statement from No. 6 to 10 and circle C if it is correct and circle W if it is incorrect. 6. Generated by the quakes in the ocean floor the gigantic ocean waves that travel towards the shore are known as Tsunami waves. 7. In Sri Lanka the highest fish catch is derived from the deep sea fisheries industry. 8. The mixing of various chemical elements during the production process has resulted in an increase in the quality of tea produced in Sri Lanka at present. 9. Spending a higher amount of money on relevant research than on the production of goods itself is a specific characteristic of the electronic industry. 10. Anavilundawa sanctuary, Bundala National Park and Madu ganga are three locations declared as wetlands of international significance.

- In questions from No. 11 to 18 fill the blanks with suitable words.
- 12. Among the rivers in Sri Lanka the largest catchment area belongs to the .MAHAW.EL.1.....
- 13. ...IGN.EQU.S..... rocks are created through cooling and solidifying the magma found in the earth's interior.
- 14. The rain water that percolates into the earth and rests on impermeable rock layers forms GROUND...... water.
- **15.** Life expectancy, literacy and the per capita gross national product adjusted to purchasing power are used as criteria to compute the index.
- To answer the questions from No. 16 to 18 use the graph given below.



Source: Central Bank of Sri Lanka, Economic and Social statistics of Sri Lanka – 2019 According to the above graph,

- 16. The highest production of tea has taken place in the year .2013....
- 17. A higher variability in production is seen in the COCONUT..... cultivation sector.
- 18. Relatively a low production in the tea and rubber sectors is shown in the year .2016....
- In questions from No. 19 to 22 two columns are shown as 'A' and 'B'. On the doted line write the number of the answer that shows the correct order when the information given in column 'A' is matched with the information given in column 'B' provided against it.
- 19. 'A'
 Energy
 Location of the power station
 1. Wind
 A Inginiyagala
 - 2. Hydro electricity B Kerawalapitiya
 - 3. Thermal electricity C Puttalam D Baruthakanda
 - (1) A, B, C (2) C, A, B (3) C, B, A (4) D, B, C (...2)

20. 'A' Forest type Nature of vegetation 1. Tropical Wet A - Plants such as Kirala, Diyakaduru, Ginpol 2. Montane Dry B - Thorny plants such as Cactus, Eraminiya, 3. Mangrove C - Number of canopy layers; trees like Hora, Keena, Midella D - Grass varieties; plants such as Maharath mal, Aralu, Nelli and Kahata (.4.)(1) A, B, D (2) B, D, A (3) C, A, B (4) C, D, A 21. 'A' **'B'** Iron and steel production centres Country 1. Shangshewan A - United States of America 2. Nagoya B - China 3. Birmingham C - United Kingdom D - Japan (1) A, B, C (.3..)(2) B, C, A (3) B, D, C (4) C, B, A 22. ίΑ' B' city Associated river 1. Shanghai A - Nile 2. Karachchi B - Sindhu 3. Cairo C - Hwangho D - Yantsikiang (1) A, B, C (2) C, B, A (3) D, A, B (4) D, B, A (.4.)• To answer the questions from No. 23 to 25, use the diagram shown below. According to this diagram which shows a tank and irrigation canals, Irrigation Cana D 23. What is the letter that indicates the area practising farming with tank water? Tank (1) A (2) B (3) C (4) D (..2.)24. What is the letter that indicates the area where the tank reserve is located? (2) B (3) C (.4.)25. Select the answer that contains the two letters showing the most suitable areas to locate settlements associated with the tank? (1) A and C (2) A and D (3) B and D (4) C and D (...]• For each question from No. 26 to 36, select the correct or most appropriate answer from the four answers given and write its number on the dotted line provided against it. 26. Select the answer that shows the latitudinal location of Sri Lanka correctly. (1) from 5°55′ N to 9°51′ N (2) from 6°55′ N to 9°50′ N (3) from 5°55' N to 8°51' N (4) from 6°00' N to 10°00' N (...1...)27. Sri Lanka is affected by cyclones mostly from (1) March to May. (2) August to October. (3) October to December. (.3..)(4) December to February. 28. • Temperature is over 18 °C throughout the year No winter season • High rainfall spread throughout year is seen. The climatic type that includes above characteristics is (1) Temperate climate. (2) Mediterranean climate. (3) Tundra climate. (4) Tropical climate. (.4...)

29	What is the pair of seas which is entirely surrounded by land? (1) Baltic sea and Red sea (2) Arabian sea and Adriatic sea (3) Caspian sea and Aral sea (4) Black sea and Yellow sea ()					
30.						
31.	. Select the answer which contains three locations that acquire prominence for the brackish					
	water fisheries industry in Sri Lanka? (1) Tangalle, Mirissa, Galle (2) Puttalam, Chilaw, Mundalama (3) Trincomalee, Jaffna, Kokkilai (4) Chilaw, Bentota, Beruwala (2).					
32.	The livestock farming sector in Sri Lanka that has shown the highest rate of growth in relation to the demand in recent times is, (1) milk production sector. (2) poultry sector.					
	(3) goat and sheep husbandry sector. (4) pork production sector (2.)					
33.	Select the answer which contains the towns that belong only to 'ancient cities' zone of the tourist zones of Sri Lanka.					
	(1) Anuradhapura, Dambulla, Kandy (3) Kandy, Polonnaruwa, Jaffna (4) Trincomalee, Kandy, Kurunegala (l)					
34.	B - New innovations					
	C - Kindness D - Environmental heritages					
	E - Hospitality Select the answer which contains two 'intangible heritages' among the tourist attractions					
	shown above.					
35.	(1) A and B (2) B and C (3) C and E (4) D and E (.3) Select the answer which contains greenhouse gases that effect climate change.					
	 Meethane, Chlorofluorocarbon, Carbon dioxide Nitrogen oxide, Meethane, Oxygen 					
	 (3) Water vapor, Nitrogen, Carbon dioxide (4) Chlorofluorocarbon, Argon, Meethane 					
36.	Which of the following is the Province with the lowest population according to the					
	population distribution in Sri Lanka? (1) Eastern Province (2) North Central Province (3) Uva Province (4) Northern Province (.4)					
•	Carefully study the interconnected pairs of topics given in A, B, C and D and answer the					
	questions from No. 37 to 40. A - 1. Global temperature B - 1. Altitude					
	 Ocean water level Air Pressure Air Pressure D - 1. Environmental pollution 					
	2. Aged population 2. Disposal of waste to the environment					
37.	What is the pair of topics which indicates an increase in the first causes a decrease in the second? (1) A (2) B (3) C (4) D (2)					
38.	(1) A (2) B (3) C (4) D (.2) What is the pair of topics which indicates an increase in the first will cause an increase					
	in the second, too? (1) A (2) B (3) C (4) D ()					
39.	What is the pair of topics which indicates a decrease in the second will cause a decrease in first, too?					
	(1) A (2) B (3) C (4) D (4)					
40.	What is the pair of topics which does not show a direct relationship between the first and the second?					
	(1) A (2) B (3) C (4) D (3)					

61 - Geography - II

Part I

- 1. (a) Study the 1:50000 topographic map section provided to you and answer the following questions based on it. In answering, use the paper (page No. 8) provided to you. For questions from No. (i) to (iii), select the appropriate answer from the parentheses and write it.
 - (i) What is the landform shown by ♠ − ₱ line? (Concave slope / Convex slope / Escarpment)

(01 mark)

(ii) What is shown by letter ©? (Shrubs / Grasslands / Forests)

(01 mark)

(iii) What is shown by letter ©?

(Narrow gauge rail line / Broad gauge single rail line / Broad gauge double rail line)

(01 mark)

- (iv) What is the main commercial crop distributed in the area shown in the quadrilateral **(E)**.
 - (01 mark)
- (v) Name **three** institutions that provide public services found in the area shown in the quadrilateral $\widehat{\mathbb{H}}$?

(03 *marks*)

- Two statements on the map area are given in questions (vi) and (vii). Read each of the statements and write C if it is correct and W if it is incorrect against the question number given in the answer sheet.
 - (vi) Evidence is available for the fact that the area shown in the map section belongs to several provinces of Sri Lanka.

(01 mark)

(vii) The distance of the section of the high way extending from \boxtimes junction to \bigcirc junction is 4 km.

(01 mark)

(viii) Of the linear scales drawn as P, Q and R which are placed below the map select the letter that belongs to the correctly drawn scale and write it on the space given in the answer sheet.

(01 mark)

(b) Carefully study the world map provided to you and answer the questions given below. In answering, use the column of boxes adjacent to the map. (page No. 9)

Three English letters are given in front of each question from (i) to (v). Select the letter that indicates the correct answer from the world map and write it in the adjacent box.

- (i) Niger River A, B, C
- (ii) The **Amazon forest** facing the threat of destruction due to the recent wildfire. \mathbb{O} , \mathbb{E} , \mathbb{F}
- (iii) Hong Kong G, H, J

- (iv) Greenland that faces the threat of melting of snow mountains ®, ®, ®
- (v) Damodar Iron and steel Industrial region. P, Q, R

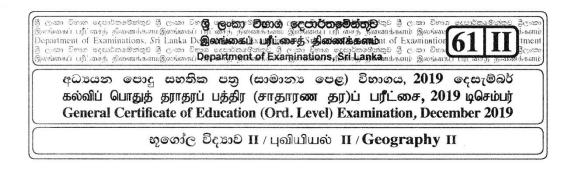
(05 marks)

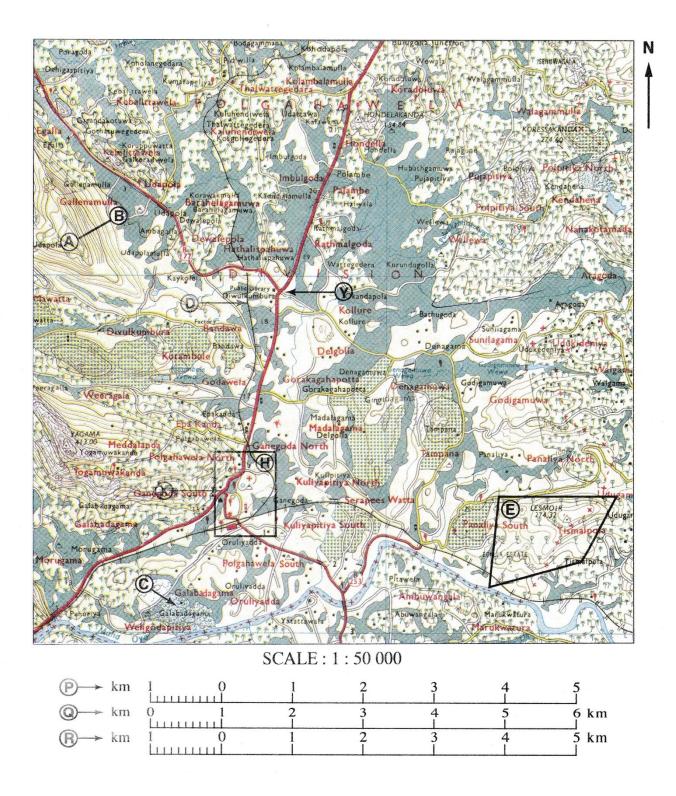
(c) Carefully study the map of Sri Lanka provided to you and answer the questions given below. In answering, use the column located adjacent to the map of Sri Lanka. (Page No. 9)

Three English letters are given in front of each question from No. (i) to (v). Select the letter that indicates the correct answer for each question from the map and write it in the adjacent box.

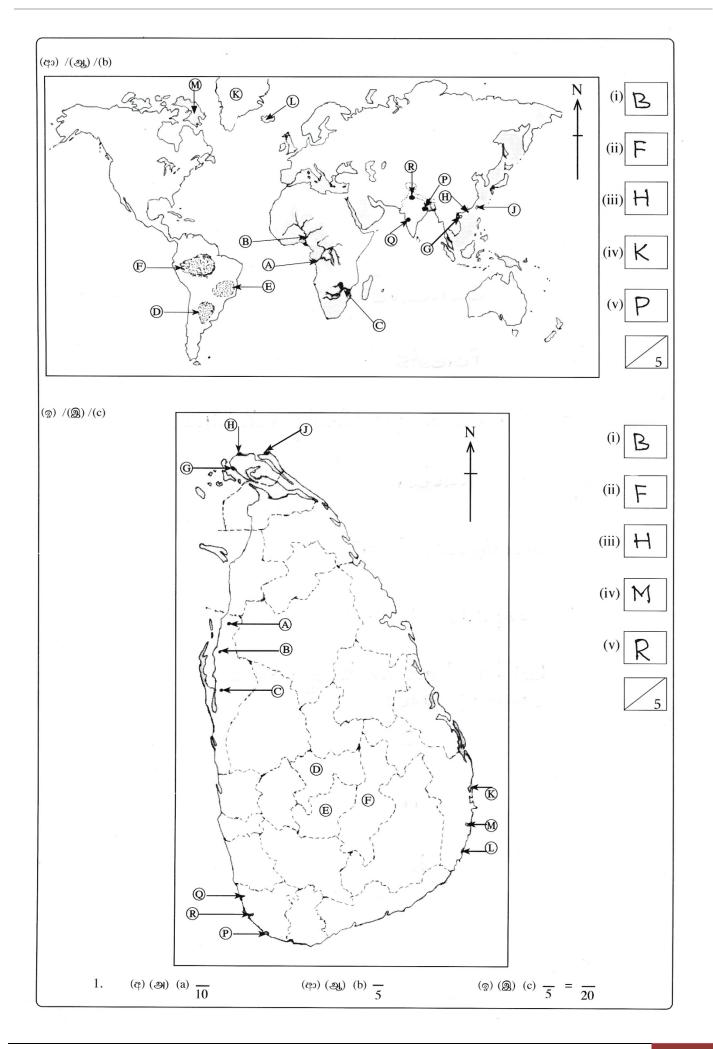
- (i) Aruwakkalu where the waste land fill A, B, ©
- (ii) Badulla District D, E, F
- (iii) Fisheries harbour in Kankesanturai @, @, J
- (iv) Arugam Bay famous as a location for wave surfing (E), (D), (M)
- (v) Madu Ganga, a tourist attraction P, Q, R

(05 marks)





ශී ලංකා විභාග දෙපාර්තමේන්තුව/ இலங்கைப் பரீட்சைத் தி අධිපයන පොදු සහතික පතු (සාමානප පෙළ) විභාගය 2019 දෙසැම්බ ර් සහඛා් பொதுத் தூரதூப் பத்திர (சாதாரண தூ)ப் பரீட்சை, 2019 டிசெம்பர் General Certificate of Education (Ord. Level) Examination, December 2019	ணைக்களம்/Departn ಶಿ හාග අංකය சுட்டெண் Index Number	nent of Examina	ations, Sri Lanka
(61) භූගෝල විදාහව II புவியியல் II Geography II		9 "	පරීක්ෂකවරයාගේ පුයෝජනය පිණිසයි. பரீட்சகரின் உபயோகத்திற்கு மட்டும் For Examiner's Use Only
1. (c) /(a) /(a) Concave			
(ii)Forests			
(iii) Broad Gauge Si	<i>5</i>		
(iv) Rubber			
(v) Post Office/Court			
Hospital, school			
Railway Station/Re (naming three)	est House		
(vi)			
(vii)		<i>e</i> ²	
(viii) R			
			10



Part II

- 2. (i) Of the layers of the Earth's atmosphere, write the name
 - (a) the layer within which all meteorological phenomena take place,
 - (b) the layer with the highest temperature, respectively

(02 *marks*)

(ii) State **three** reasons responsible for the decrease in the quality of freshwater available for the use of humankind.

(03 marks)

(iii) Explain with **three** factors how the destruction of forests affects the existence of the biospheric sub-system.

(05 marks)

- (i) (A) Troposphere
 - (B) Thermosphere

2 marks

- (ii) Re leasing waste water from factories to reservoirs
 - Addition and release of various chemicals and carbonic matter in to the water, used and released by industries.
 - The mixing of fertilizers and chemicals added to soil in agricultural activities.
 With the water. (Weedycides and insecticides)
 - Addition of bacteria to groundwater and surface water on the land as a result of the irregular disposal of waste matter and sewage.
 - Disposal of garbage to water resources

3 reasons - 3 marks

- (iii) Loss of animal habitats
 - Destruction of bio-systems
 - Equilibrium of the biosphere has been disturbed
 - Erosion of the surface soil
 - Reduction of soil fertility

3 factors - 03

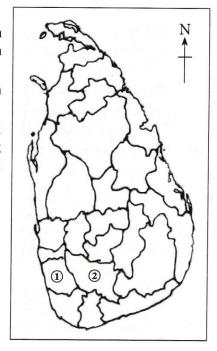
Explanation - 02

<u>05</u>

- 3. (i) Name the **two** districts significant for rubber cultivation shown as No. ① and No. ② in the adjacent Map of Sri Lanka in that order.

 (02 marks)
 - (ii) Mention **three** problems encountered by the rubber industry in Sri Lanka at present. (03 marks)
 - (iii) Explain with **three** factors how the utilization of rubber for local industries and exporting as finished products instead of exporting it as raw material would lead to economic development of Sri Lanka.

 (05 marks)



- (i) (01) Kalutara
 - (02) Rathnapura

2 marks

- (ii) Lower yield per unit of land
 - Using rubber lands for other purposes
 - Scarcity of rubber tappers (Skilled labour)
 - Fluctuation of prices
 - Competition from substitutes
 - Competition from other countries (Malaysia)
 - High production cost
 - Weather problems

3 problems - 3 marks

- (iii) Important as a source of employment opportunities
 - able to reduce the import expenditure by producing necessary rubber products in sri lanka.
 - Helps to enhance the quality of life of the people by creating job opportunities
 - Cause for regional development

3 facts - 03 marks

Explanation - 02 marks

4. (i) Name the **two** energy sources widely used for the generation of electricity in Sri Lanka other than water.

(02 marks)

(ii) State three problems arising in the energy use.

(03 *marks*)

(iii) Describe three advantages of using energy with austerity.

(05 marks)

- (i) (01) Mineral oil/petroleum
 - (02) Coal

2 marks

- (ii) High cost
 - Some of the energy sources like solar power depend on environmental factors and a high initial cost has to be spent
 - A high cost is spent for importing crude oil
 - More wastage in consumption of energy
 - Break downs due to natural hazards
 - Environmental pollution
 - Some of the energy resources are facing a repaid depletion.

Three problems - 03 marks

- (iii) Saves foreign currency that we spend on importing crude oil
 - Consumption of energy sources sparingly would help to fulfill high demands
 - Contribution to the development of the country
 - It would also contribute towards sustainable development
 - Minimize environmental destruction
 - Minimize the effects of natural hazards and climatic changes

3 facts - 03 marks

Description - 02 marks

- 5. The ship-building industry, a developed industry in many European countries in the past, has transformed into a world's leading manufacturing industry at present.
 - (i) Write down **two** reasons that led to the development of ship-building industry in the European countries in the past .

(02 *marks*)

(ii) State three recent trends in the ship-building industry.

(03 marks)

- (iii) (a) In recent times a development could be seen in the boat manufacturing industry in Sri Lanka. Explain **two** reasons for it.
 - (b) Describe in brief,
 - (I) a problem associated with raw materials
 - (II) a problem associated with markets in relation to world's manufacturing industry.

(05 marks)

- The high demand for ships due to explorations by European nations after the renaissance in Europe and for trade, fishing and warfare activities
 - Availability of timber and steel required for ship building
 - Availability of indented coasts required to make shipping docks
 - State patronage
 - There were wealthy people who had the financial power to support for the industry

2 reasons - 02 marks

- The ship production is geared to the type of commodities that ships transport, because there is a high demand for those kinds of ships in the world market (Ex. Bulk carriers, tankers and container ships)
 - Building of ultra-luxury liners for passenger transport
 - Building ships for special purposes (Ex. Ocean exploring / Fishing / Floating Libraries / Floating Hospitals / War Activities')
 - Using new technology (Ex. G.P.S)
 - Using Robotic technology abundantly

Three trends - 03 marks

- (iii) (a) Expansion of fisheries activities
 - Development of the tourist sector in sri lanka
 - Traditional experience in boat building using timber in the country helped in building boats of high quality
 - Rising of foreign demand for boats built in sri lanka

2 reasons - 02 marks

- (b) (i) Exhaustion of raw material due to long term usage
 - Use of synthetic raw material in place of natural raw material (Ex. Synthetic rubber synthetic fiber)
 - Dependence of industries upon imported raw material
 - The market which had been a heritage of the west European countries in the past shifting to the east Asian zone has created economic crises in these counties
 - The rise in the cost of commodities with the addition of the cost of advertisements to the price of such goods due to competitive markets
 - Presenting substitutes to the market for various commodities
 - Industries in developing countries has the problem of facing against the competition given by Multinational corporations
 - Influence of taxation policies

2 problems - 02

description - 01

<u>03</u>

(a) 02 marks

(b) <u>03 marks</u>

05 marks

- **6.** (i) Name respectively,
 - (a) a sparsely populated area in Africa due to the effects of harsh climatic factors.
 - (b) a sparsely populated area in the Asian continent due to the effects of rugged relief.

(02 marks)

- (ii) State
 - (a) **two** problems encountered by the developing countries due to their rapid rate of population growth.
 - (b) **one** problem encountered by the developed countries due to their excessively slow rate of population growth.

(03 *marks*)

(iii) State **three** problems associated with the population structure of Sri Lanka and describe **one** of them.

(05 marks)

- (i) Sahara desert / Congo forest / Kalahari desert
 - (b) Himalaya mountains

- (a) 01 marks
- (b) <u>01 marks</u>

02 marks

- (ii) (a) Scarcity of resources to meet the demands of increasing population
 - Have to spend more from the national income to maintain the increasing number of dependents
 - Problem of fulfilling the basic needs
 - Increase in unemployment
 - Other socio-economic problems
 (Ex. shortage of food/housing shortage)
 - Shortage of pure drinking water
 - Collection of garbage in large amounts
 - Unfavorable influence on development process

Two problems - 02 marks

- (b) Declension of population
 - Shrinking labor force
 - Increasing the number of aged population

(a) 02 marks

(b) <u>01 marks</u>

03 marks

- (iii) Problems associated with the aged population
 - Reduction of labour force due to decrease in the lower aged group and the increase in old aged group
 - variations in the sex-ratio-Females outnumbering males has become the recent trend. - Influence on labour force. Increase in number of dependents

3 problems 03

Explaining one <u>02</u>

<u>05</u>

7. (i) State the primary objective expected to realize through the regional development in Sri Lanka.

(02 *marks*)

(ii) Name **three** projects implemented to achieve rural development under the regional development programme of Sri Lanka.

(03 marks)

(iii) Name three measures that have been adopted recently for the development of highways and railways in Sri Lanka and explain how they have contributed to the country's development.

(05 marks)

(i) Main objective of regional development is to act towards human welfare minimizing discriminations by utilizing the resources and the physical environment centered in different areas

02 marks

- (ii) Janasaviya Samurdhi project Divineguma Maga neguma
 - One task for one village programme Housing development project
 - Rural hydro power projects Community based water projects Gamperaliya
 - Gamidiriya project
 Dairy farming villages

Naming three projects - 03 marks

(iii) Roads

- Express ways colombo matara / colombo katunayake
- Peliyagodo Athurugiriya
- Colombo kandy high way
- Widening and carpeting of existing roads
- Constructing fly overs
- Multipurpose transport Centre at makumbura
- Under ground tunnel ways

Rail ways

- Matara kataragama proposed railway line
- Improving southern railway
- Reconstructing the northern railway
- Trible line railway from colombo to Ragama

Contribution to the development

- Time saving
- Quick transport service
- Reduction of cost of transport
- Safety transport system
- Able to reduce the fuel consumption

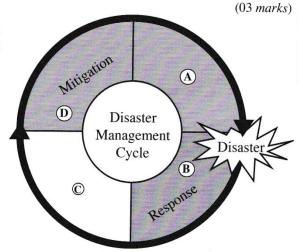
Three measures - 03

Contribution to the development - <u>02</u>

<u>05</u>

- 8. (i) Name two natural hazards that occur without the influence of human activities. (02 marks)
 - (ii) Name the natural hazard strongly affects the districts shown as (a), (B) and (C) below respectively.
 - A Kalutara and Ratnapura
 - B Anuradhapura and Mannar
 - © Kegalle and Nuwara Eliya
 - (iii) (a) Name respectively the **two** stages denoted as (a) and (b) in the Disaster Management Cycle diagram shown adjacently.
 - (b) Explain with **two** measures how one should act during the stage **B** shown in the diagram.

(05 marks)



- (i) Tsunami Earth quakes Cyclones Lightning Floods Drought
 - Volcanoes Avalanches Forest fires Land slides

Naming two - 02 marks

(ii) A - Flood B - Drought C - Land slides

- (iii) (a) A Preparation
 - C Recovery
 - (b) Assuring the protection of the community subjected to the hazard
 - Providing medical treatments
 - Protection of physical property as much as possible
 - providing temporary lodging
 - Providing food
 - Providing cloths
 - Providing advisory services

- (a) 02 marks
- (b) <u>03 marks</u>