Provincial Department of Education - NWP

22 **E** **I**

Second Term Test - Grade 13 - 2018

Index No. ....   Geography I   **Two Hours**

- *Answer all the questions.*
- *Write the correct number of the correct choice in the bracket.*

Part - I

1. 1000Km^2 parts of topographical maps of 1:50000 scale are again divided in to 25parts. Select the scale used to divided in to 25 parts.

   i. 1 ፡ 25000   ii. 1 ፡ 10000   iii. 1 ፡ 100000   iv. 1 ፡ 63360   v. 1 ፡ 5000   (.........)

2. Which answer contains the real land area covered by 6cm x 6 cm area in a topographical map of 1:50000 scale.

   i. 8 km^2 ii. 18 km^2 iii. 9 km^2 iv. 36 km^2 v. 13 km^2 (.........)

3. Select the physical and cultural features represented by black colour broken line (--------) in the topographical map.
   i. Jeep road and foot path   ii. Water divide and rail road   iii. Spur and foot path
   iv. Water divide and foot path   v. Valley and rail road.   (.........)

4. Which one of the following cartographical techniques can be used to present continuous data ?
   i. dot map   ii. line graph   iii. divided circle
   iv. Multiple bar graph   v. Clock graph   (.........)

5. What is the answer that contains only primary sources.
   i. Questionnaire, topographical map, bank report.
   ii. Interview, observations and questionnaire, investigation
   iii. Landuse map, diary, administrative report
   iv. Documentary film, papers, magazine
   v. Computerize report, papers, journals   (.........)

6. In the topographical map, when presenting relief if contours bend towards the highland area, that feature is called.
   i. Valley   ii. Dissected plateau   iii. Undulating land
   iv. Spur   v. Water divide   (.........)

7. Letters A and B in above figure shows features associated with drainage. They are respectively.
    i.   river system and water divide
    ii. Catchment area and mountain slope
    iii. river system and water fall.
    iv. tributary and catchment area.
    v.   river system and catchment area   (..........)
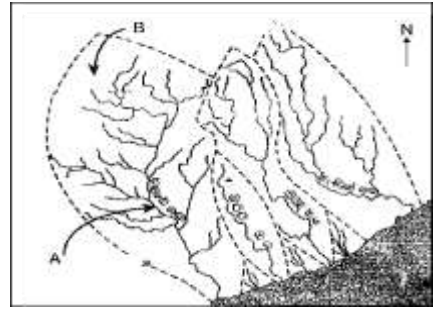
8. What is the main drainage pattern found in rivers in South western parts of Sri Lanka.
    i.   linear drainage pattern   ii. dendritic drainage pattern
    iii. trellis drainage pattern   iv. radial drainage pattern
    v.   annular drainage pattern   (.........)

9. Where is the master control station of GPS a modern cartographical techniques, located ? ,
    i.   Hawaiian Islands   ii. Diego Garcia   iii. Ascension Island
    iv. Colorado in USA   v. Seychells Island   (.........)

10. In remote sensing, what is the name given for the techniques in which sensors are placed on a ladder tall building etc.
    i.   a method of obtaining aerial photographs.   ii. airborne platform
    iii. ground – base platform   iv. space – base platform
    v.   a method of obtaining satellite image.   (.........)

11. The amount of water vapour that a unit of air can hold under a given temperature condition is known as,
    i.   absolute humidity   ii. Humidity   iii. latent heat
    iv. relative humidity   v. Dew point   (.........)

12. Which answer correctly shows the main metamorphic rock types.
    i.   quartz, marble, slate, shiest   ii. slate, limestone, basalt, shale
    iii. shiest, slate , limestone, basalt   iv. quartz, marble, slate, basalt
    v.   marble, sandstone, quartz, shale   (.........)

13. Select the process in which river transport its load.
    i.   abrasion, corrosion, traction   ii. solution, deposition, traction
    iii. traction, saltation, suspension   iv. corrosion, saltation. solution
    v.   deposition, corrosion, solution   (.........)

14. Which of the following is a reason for the occurrence of El-Nino phenomena.
    i.   graduall decreasing of temperature in Pacific ocean.
    ii. Sudden decreasing of temperature in Indian ocean.
    iii. Increasing temperature gradually in Atlantic ocean.
    iv. Increasing temperature suddenly in Pacific ocean.
    v.   Increasing temperature gradually in Indian ocean.   (.........)

15. A landform formed due to the process of water in desert area.
    i.   Barchan   ii. Wadi   iii. Yardang
    iv. Star sand dune   v. Loess deposit   (.........)

16. 'Sea floor is spreading in mid Atlantic Ocean area" Select the statement that is related to above statement.
    i.   Closer to transverse plate boundary.
    ii. has a convergent plate boundary.
    iii. had both convergent and divergent boundary.
    iv. destructive plate boundary
    v.   divergent plate boundary.   (.........)

17. Following figure shows a group of volcanoes. Select the answer that contain correct order of ABCD landforms.
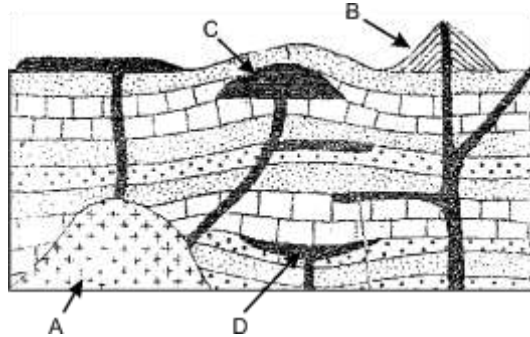
    i.   A – Bacolith   B - Lacolith   C - Pacolith   D – Lava Cone
    ii. A – Bacolith   B - Pacolith   C - Lacolith   D - Lava Cone
    iii. A – Pacolith   B - Bacolith   C - Lacolith   D - Lava Cone
    iv. A – Bacolith   B - Lava Cone   C - Lacolith   D – Pacolith
    v.   A – Lacolith   B - Bacolith   C - Pacolith   D - Lava Cone   (.........)

18. Select the two layers of atmosphere in which temperature decreases gradually with altitude.
    i.   troposphere and stratosphere   ii. troposphere and stratopause
    iii. Mesosphere and tropopause   iv. tropopause and stratopause
    v.   troposphere and mesosphere   (.........)

19. What are the two plates that meet near the San Andreas fault ?
    i.   Scocia and Nazca   ii   Arabian & Eurasian
    iii. Arabian and Eurasian   iv. Pacific and North America
    v.   Nazca and Colose   (.........)

20. What are the two African areas in which tropical rainforest are seen ?
    i.   West Africa, Indonesia   ii. Congo area and Madagascar
    iii. Amazone and Borneo Island   iv. Congo and Borneo Island
    v.   Califonia and Congo area   (.........)

21. What is the districts that has highest rural population in Sri Lanka.
    i.   Mannar   ii Sri Lanka   iii. Kandy
    iv. Kegalle   v. Vavuniya   (.........)

22. Select the factor that is related to green revolution in expansion of world food production.
    i.   Increasing land area   ii. Use of gene technology
    iii. Following irrigational method.   iv. Storing harvest properly.
    v.   Production of high yielding new seeds.   (.........)

23. What is the world famous country that adapted policies in marketing of agricultural products.
    i.   Russia   ii. USA   iii. Europe
    iv. India   v. China   (.........)

24. Select the type of mineral sand which obtaining from internal area in producing mineral sand in Sri Lanka.
    i. Rutile   ii. Ilmanite   iii. Silica Sand
    iv. Zircorn   v. Posphate   (.........)

25. New densely populated zone which included in to modern population concentration in the world.
    i. North – Western Europe   ii. South – African area
    iii. South – eastern Asian zone   iv. South – Asian zone
    v. South – American zone   (.........)

26. Which features of population are changed with the time.
    i. Growth, size, composition, trends   ii. Distribution, migration size, composition
    iii. Size, growth, distribution, composition   iv. Size, composition, trends, growth rate
    v. Migration, growth rate, trend, composition   (.........)

27. Which answer contain the correct features that are found in rurban area.
    i. flats, commercial activities
    ii. hub of main transportation, collapsing industries.
    iii rapid migration, residential expansion.
    iv. Industrialization, low residential facilities.
    v. Industrial collapse, flats.   (.........)

28. Select the ascending order of energy sources that used in abundance in cooking in Sri Lanka.
    i. LP gas, electricity, firewood   ii LP gas, firewood, biogas.
    iii. Kerosene, LP gas, electricity   iv. Firewood, electricity, LP gas
    v. Firewood, LP gas, Kerosene   (.........)

29. The dominant company in the marketing of world agro product is,
    i. Dupoint   ii Cargill's   iii. CIC
    iv. Monsanto   v. Browns   (.........)

30. Present largest migration stream in the world is found in,
    i. towards Latin America from West Africa.
    ii towards South Europe from North Africa
    iii. towards North America from East Asia.
    iv. towards Australia from South Asia.
    v. towards North America from West Europe.   (.........)

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Index No. ....

## Geography I

Part - II

- **Answer two questions only. Selecting No. 1 and one question from questions 2 and 3.**

01). Using the part of topographic map of 1:50000 scale provided, answer the following questions.

   i. Calculate the area in Km of the north eastern quarter. (2 marks)

   ii. Present 3 factors to determine to which direction the slope of the map is ? (2 marks)

   iii. Name administrative boundary marked as A-B line. (1 mark)

   iv. With the help of sketch diagrams, Explain 3 factors about the relationship between relief and land utilization. (6 marks)

   v. Calculate the distance of main road in Km which runs parallely to the coast. (1 mark)

   vi. Discuss the physical features that have influenced the location and distribution of Settlement. (4 marks)

   vii. Name the physical features marked as no. 1 and cultural features marked as no. 2 and 3. (4 marks)

02). i. What is Remote Sensing ? (3 marks)

   ii. Name the components of GPS marked as ABC in the following diagram. (3 marks)

   iii. Discuss 4 advantages of modern cartographical techniques on cartography. (8 marks)

   iv. Explain 3 problems that have to be faced in using data without updating. (6 marks)
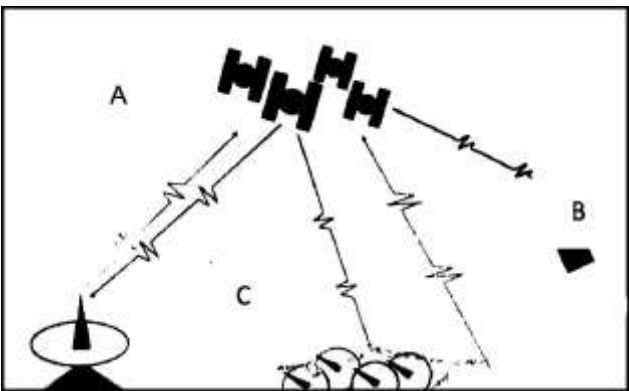
03). i. Write 02 measurements of central tendency and 02 measurements of variability in organizing and interpreting data in statistics. (4 marks)

ii. Calculate mean deviation separately for Africa and North America using data table below.

(6 marks)

iii. Create dual bar graph using data table used in part (ii) above. (6 marks)

iv. State 04 special features of data table with the help of graph you created. (4 marks)

Growth of population in Africa and North America (by millions.)

Year	Africa	North America
1970	356	232
1980	467	255
1990	619	282
2000	794	314
2010	997	342
2020 (Projected)	1231	370
Total	4464	1795

Source – United Nation's report.

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22 | **E** | **II**

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Index No. .... | Geography II | Three Hours

01). i. State what is 'eco-system ' (4 marks)

ii. According to a food chain, name trophic levels that can be identified in an eco-system. (4 marks)

iii. Describe with reference to an energy pyramid that how energy flow in an eco-system. (6 marks)

iv. Describe 03 factors that damaged the equilibrium of eco-systems. (6 marks)

02). 'Weather and Climate influence the living beings as well as human process on the earth. Climatic condition prevailed earlier has been changed recently and both human and natural reasons have affected for this '

i. What is meant by 'Climate changes' (2 marks)

ii. Describe how following factors influence the Climate of Sri Lanka.

1. Inter Tropical Convergence zone. (ITCZ)

2. Cyclone (6 marks)

iii. (a) According to the Keppon's climatic classification, name A and B climatic types and mention their sub climatic types.

(b) Describe separately the climatic features and features of vegetation of A and B climatic types.

(6 marks)

iv. Explain how A climatic type influences on human activates (6 marks)

03). i. Several landforms formed by the exogenic agents are shown below. Write respective denudation factor separately ?

Flood Plain, Loess Deposit, pediment, Drumlin, tarn, Fiord Coast, Alluvial fan (3 marks)

ii. Explain with diagram the formation process of above 3 landforms you like ? (6 marks)

iii. Explain erosional process of waves as an erosional factor in coastal areas. (5 marks)

iv. Describe about coral reefs seen in coastal area under the following headings.

• Physical factors required for the formation of corals.
• Types of coral reefs.
• Importance of coral reefs. (6 marks)

1

04). i. State the difference between natural hazard and disaster. (6 marks)

ii. Nlame 03 natural disasters that occur suddenly and write 2 areas for each they are abundantly seen in the world. (4 marks)

iii. Explain giving examples 02 influences on human society and physical environment that caused by natural disasters. (3 marks)

iv. A model of disaster management cycle is shown below. Explain the steps that are followed in each phases in the cycle according to the various natural disasters. (7 marks)
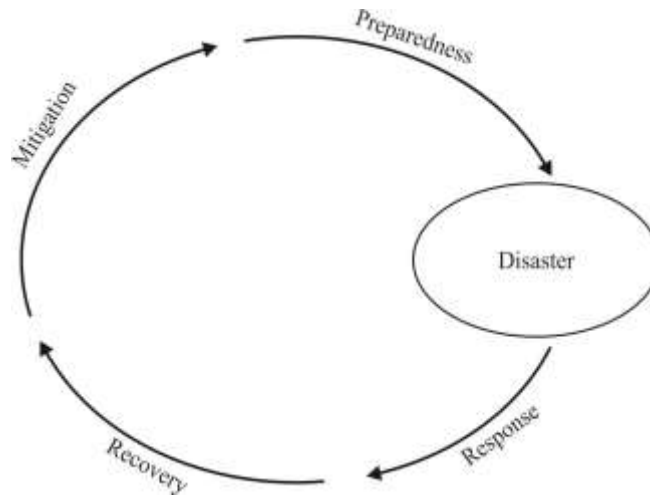
Part – II (Human Geography)

International Migration

Year	Total Migrants (Million)	Total World Population (Million)	Migration as a Percentage of Total World Population
1965	75.0	3,300	2.3
1970	81.5	3,800	2.2
1975	87.0	4,000	2.2
1980	99.8	4,500	2.2
1985	105.0	4,850	2.2
1990	154.8	3,300	2.9
1995	165.1	5,700	2.9
2000	174.9	6,115	2.8
2005	190.6	6,512	2.9
2010	213.9	6,909	3.0
2015	228.2	733	3.2

05). i. According to the table above, Name 3 special features that can be seen in international migration during the period of 1965-2010. (3 marks)

ii. Name 05 countries where international migrants are abundantly found? (5 marks)

iii. Explain with examples how population migration affect the size, composition and growth of population in a country. (6 marks)

iv. Describe 03 problems faced by a country because of refugees. (6 marks)

06). Mineral resources can be categorized in to 3 as metal mineral, nonmetal mineral and energy minerals.

 i. Name 02 mineral types for each group that can be seen in Sri Lanka. (3 marks)

 ii. Name 04 mineral types with their 02 product which are used as industrial raw materials in Sri Lanka. (5 marks)

 iii. Describe 03 adverse effect of mineral on environment. (6 marks)

 iv. Explain 02 measures that have been taken by the Sri Lankan government for minimization the damage to environment. (6 marks)

07). i. Name 03 human and 03 physical factor that affect the location of manufacturing industries in the world. (3 marks)

 ii. Important cities for shipbuilding industry are marked on the following map. Name them in order. (5 marks)

 iii. Explain briefly, 03 factors that affect the location of ship building industry. (6 marks)

 iv. Discuss 03 modern trends in ship building industry. (6 marks)

08). i. Five main tourism zones in Sri Lanka are marked in the map by letters ABCDE. Name them in order. (5 marks)

 ii. State 04 reasons for tourists to visit Sri Lanka. (4 marks)

 iii. Describe separately economical and social impact of tourism industry in Sri Lanka. (6 marks)

 iv. Explain the measures for the development of tourism industry. (5 marks)