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Provincial Department of Education - NWP

22 E I

Third 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

- The length and width of the map face of topographical map of 1:50000 scale is
 - 80 cm and 40 cm
 - 60 cm and 25 cm
 - 40 cm and 25 cm
 - 80 cm and 50 cm
 - 50 cm and 25 cm

(.....)
- Water hole and a dam shown in a topographical map belong to
 - Drainage feature
 - Coastal feature
 - Irrigation features
 - Roads
 - Boundaries

(.....)
- At present, use of computer maps have been expanded within a short period. The reason for that is
 - as utilization and creation is easy
 - as it is used in mobile phones
 - as physical features are prominent
 - as creation and storing data is easy
 - easy in identifying cultural features

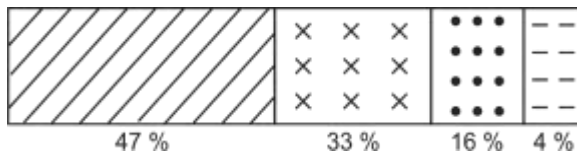
(.....)
- What is the reason for making remote sensing more utilizable in making map?
 - Providing required data and information
 - mapping areas which are difficult to reach
 - Ability to identify relevant areas exactly
 - Ability to identify entrance road
 - easy in entering new information

(.....)
- Spatial data included in a GIS is created by
 - attributes included in data
 - by points, lines and polygons which are used to locate geographical Co-ordinates
 - by nominal data
 - by information related to observation unit
 - by distribution of sequential data

(.....)
- Mapped area is transferred into rows and columns pattern and considering each as observation units, a numerical value is given. Which one of the following is created by the above method?
 - Raster data format
 - Map layer format
 - Three dimensional map
 - Vector data format
 - Topographical map

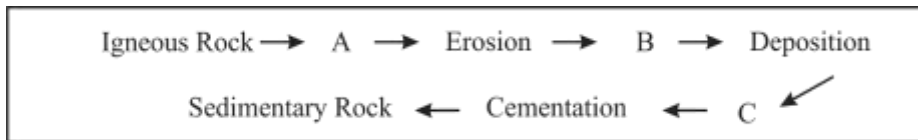
(.....)

7. Which of the following can be considered as a measurement that used to present distribution of data group.
 i. Mode ii. Median iii. Mean iv. Quartile deviation v. histogram (.....)
8. Following shows a graph which present 4 types of export goods in Sri Lanka

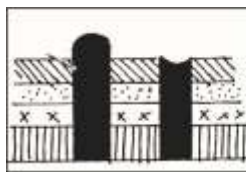


Select the cartographical method shown above

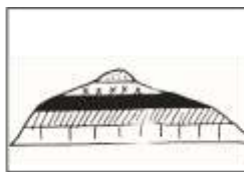
- i. Compound multiple bar graph ii. Compound percentage bar graph
 iii. Wheel chart iv. Percentage compound bar graph (.....)
 v. Multiple bar graph
9. Which number can be considered as the assume mean in a data distribution which has class intervals as 45 - 49
 i. 46 ii. 46.5 iii. 47 iv. 48.5 v. 48 (.....)
10. Which of the following technique is used to observe positive skewness negative skewness and normality of data in a statistical distribution
 i. Frequency polygon ii. Bar graph iii. Multiple bar graph
 iv. Mode v. Deviation graph (.....)
11. Following shows a diagram that relates to rock cycle. Select the answer that contain processes shown by A B C



- i. transportation, weathering and crystallization ii. Weathering, Sedimentation and melting
 iii. Weathering, transportation and sedimentation iv. Melting, weathering and transportation (.....)
 v. Metamorphism, melting and crystalization
12. Which can be considered as a place where new crust is formed at the constructive zones on which two plates of the earth move apart.
 i. Himalayan mountain range ii. Mid Atlantic oceanic ridge
 iii. Nazca plate iv. Ural mountain range (.....)
 v. Andes mountain range
13. Three landforms formed by intrusive volcanism are shown below. Select the correct order of those landforms.



A



B



C

- i. Sill, Laccolith, dike ii. Laccolith, batholith, dike
 iii. Dike, parcolith, lopolith iv. Sill, lopolith, dike (.....)
 v. Dike, Sill, laccolith

14. "This landform is formed when sediment and other material carried by river scour the bed. Where depressions exist in the channel floor, turbulent flow can cause pebbles to spin around and erode hollows through "abrasion". Select the landform present in the paragraph.
- Waterfall
 - "v" shaped valley
 - Bolders
 - potholes
 - Ventifacts
- (.....)
15. Select the climatic zone in which no dry season in Sri Lanka.
- Low country wet zone
 - low country dry zone
 - hill country wet zone
 - hill country dry zone
 - Semi - arid zone
- (.....)
16. The diagram that shows general circulation of wind is shown here. Select the answer that contain low pressure zone
- A and D
 - A and B
 - C and D
 - A and C
 - B and D
- (.....)
-
17. Distribution area of Taiga forest is
- between 35° North latitude and equator
 - between 50° North latitude and the pole
 - either side of the tropics
 - between 40° North latitude and the pole
 - between 50° north latitude and equator
- (.....)
18. Select the natural disaster that cause changes in water springs, drying up existing springs and appearing new water springs
- Bush fire
 - Tsunami
 - flood
 - Avalanches
 - Landslides
- (.....)
19. Select the task on which a great attention is paid by National Environmental act established by Central Environmental Authority.
- A license from central environment authority is required in any activity related to environment
 - prohibition of exporting of forest materials
 - Conservation of internationally importance wetland
 - Enforcing laws for conservation of wildlife and vegetation
 - Conservation of environmental resources found in coastal area
- (.....)
20. The responsible organization that published ' Red data book' for documenting rare and endangered species of animals and plants is,
- International water management Institute (IWMI)
 - National Aquatic Resources and Research Development Agency (NARA)
 - Central Environmental Authority (CEA)
 - International Union for Conservation of Nature (IUCN)
 - United Nation Environmental Programme (UNEP)
- (.....)
21. Which of the following are identified as areas where population distribution has been changed based on the reasons such as urbanization, trade, new trade centers
- Kobe - Japan, Kolkata - India, Johannesburg - South Africa
 - Osaka - Japan, Afghanistan, Bangalore - India
 - Kobe - Japan, Bombay, India, Sidney - Australia
 - Jakarta - Java, Brasilia - Brazil, Osaka - Japan
 - Shanghai - China, Tokyo - Japan, Ottawa - Canada
- (.....)

22. How many years were taken for population to reach 2000 million which was 1000 million in 1830 A.D.
- After 15 Years
 - After 45 years
 - After 13 Years
 - After 35 Years
 - After 95 Years
- (.....)
23. Select the answer that contains the ascending order of languages used mostly by the people in the world.
- Mandarin, English, Hindi, Spanish, Russian
 - English, Hindi, Mandarin, Spanish, Russian
 - Mandarin, Hindi, English, Spanish, Russian
 - Russian, Hindi, English, Mandarin, Spanish
 - Hindi, English, Mandarin, Russian, Spanish
- (.....)
24. Select the answer that contains 03 criteria that are used in differentiating towns from villages.
- Population, migration, transportation facility
 - functional diversity, population, economic activity
 - service facilities, migration, percentage of people engaged in agricultural activity.
 - Percentage of people engaged in industrial activity, percentage of daily mobility, road network.
 - Population, Population density, migration
- (.....)
25. Urbanization index is calculated,
- mid - year total population as a percentage of urban population
 - Urban population as a percentage of total population
 - by the difference of rural and urban population
 - by population which grows annually within the town
 - by population who migrate annually to the urban area
- (.....)
26. Select the strategy that is used by the countries as a solution for land degradation and desertification
- Monoculture
 - Popularizing irrigational methods
 - crop rotation
 - Expansion of land areas where animal husbandry is carried out
 - Expansion of forest cover to flat lands
- (.....)
27. Select two areas where the following proposals are implemented in Sri Lanka
- | | | |
|------------------------------|----------------------------|----------------------|
| • Preventing floods | ● removing salt water | |
| i. Bolgoda, Anuradhapura | ii. Aththidiya, Bolgoda | iii. Kegalle, Jaffna |
| iv. Dehiaththakandiya, Kotte | v. Rajanganaya, Thumbovila | (.....) |
28. What is the most effective step taken by Sri Lanka for minimizing the risk of depending on plantation crops?
- Introducing large scale irrigation method
 - Minimizing giving land for the settlement
 - Removing small scale cultivation areas
 - Planting fruits in garden lands
 - Cultivating substitutional crops
- (.....)
29. Which factor had been in effect to make Asian countries the leaders in iron and steel production.
- abundance of the factors affecting the location of conventional industries
 - advantage of obtaining raw materials
 - Overriding importance of human factors over the physical factors.
 - as a result of minimizing transportation problems by ship building industry.
 - concentration of large number of physical factors for the location.
- (.....)
30. Five major tourism centres have been declared by the development plan for the tourism industry. Select the project under which that was declared.
- Ten year plan under the WTO
 - Tourism Act of No.10 of 1966
 - By the tourism bureau which was established in 1937
 - Ten year promotion plan 1968 - 1978
 - By Sri Lanka hotel School
- (.....)



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Index No. Geography I

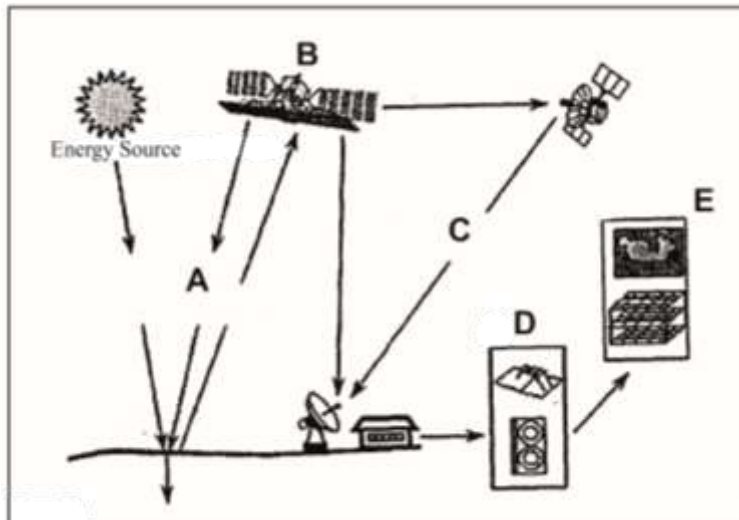
Part - II

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

- Using the part of topographic map of 1:50000 scale provided, answer the following question.

01.
 - i. Name two special physical features seen in the squares no 1 and no 2 (2 marks)
 - ii. Name settlement pattern seen in the square no - 03 (1 marks)
 - iii. Name two slopes marked as A - B and C-D (2 marks)
 - iv. Calculate the distance of main road in km which runs from X to Y (2 marks)
 - v. Explain how relief has influenced for sparse distribution of human settlement in south western quarter of mapped area. (4 marks)
 - vi. Explain briefly the differences associated with features seen in areas separated by district boundary. (4 marks)
 - vii. Explain the relationship between physical features and land utilization pattern. (5 marks)

02.
 - i. State 4 hardware of GIS. (4 marks)
 - ii. Explain with examples the duty of the computer in manipulating data in GIS (3 marks)
 - iii. Explain 3 reasons for the importance of the application of Remote Sensing in various field in Geography recently. (8 marks)



- iv. The remote sensing process and the components are shown in above diagram. Selecting from the brackets name the processes marked as A B C D E and explain the processes of two.
(Data transmission, products application, Data interpretation and analysis, Data reception and processing, atmospheric interaction, energy detector, calculating time, recording sound energy transmission) (5 marks)

03. i. Create frequency distribution table with suitable class intervals using the data table below.

Paddy production in Sri Lanka
yala season. ('000 metric tons) 2005 - 2017

Year	Production ('000 metric tons)
2005	1280
2006	1520
2007	1320
2008	1710
2009	1610
2010	1540
2011	1350
2012	1760
2013	1220
2014	980
2015	1770
2016	1510
2017	795

Source : Department of Statistics

- ii. Create percentage cumulative frequency curve (ogive) for paddy production (6 marks)
- iii. State your ideas about the variability of paddy production from 2005 - 2017 (4 marks)
- iv. Explain with sketch diagram how simple bar graph can be used to show the variability of paddy production (6 marks)



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Index No. **Geography II** **Three Hours**

- **Selecting at least 02 questions from each part write answers for 05 questions only.**

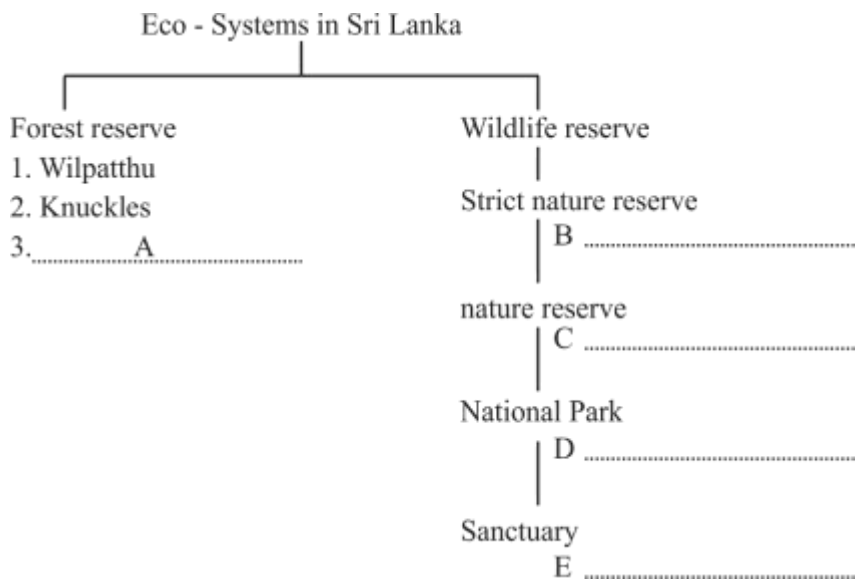
Part - I (Physical Geography)

01. According to the factors influence for the formation, 3 types of sedimentary rocks have been identified.
1. Clastic sedimentary rocks
 2. Chemically precipitated sedimentary rock
 3. Organic sedimentary rock
- Few rocks which belong to above types are given in the brackets (Dolomite, limestone, gravel, Jasper, mud, coal)
- i. Categorize these rock types according to the above classification. (3 marks)
 - ii. Describe briefly 3 uses of sedimentary rocks. (6 marks)
 - iii. Name 2 types of minerals utilized as industrial raw materials and briefly explain the productions associated with above mineral related industries. (5 marks)
 - iv. Most of the mineral resources obtain form Sri Lanka are exported. Explain 3 reasons for that (6 marks)
- 02.
- i. Name 3 atmospheric wind circulation processes and write one wind type for each (3 marks)
 - ii. Write sub types of 'A' climate of Koppen's climatic classification and explain how one type of above is utilized. (5 marks)
 - iii. Describe 3 factors influence for the occurrence of green house effect (6 marks)
 - iv. Describe with examples under the following sectors, the steps taken to minimize releasing green house gases into atmosphere in Sri Lanka. (6 marks)
 1. Energy Sector
 2. Industrial Sector
 3. Transportation sector

03. Few erosional and depositional landforms formed by the glacial erosional process are shown below. Cirque, drumlin, pyramidal peak, tarn lake, nunatak, esker, Rochemoutennees, erratics.

- i. categorize the above landform as continental glacial landforms and mountain / valley glacial landforms. (4 marks)
- ii. Explain briefly, the glacial erosional process (6 marks)
- iii. Explain with diagrams the formation process of 3 types of glacial landforms you like (6 marks)
- iv. Explain economical activities done in glacial landscape. (4 marks)

- 04. i. Define what is meant by "eco - system" (3 marks)
- ii. A classification of an eco - system identified in Sri Lanka is given below. Write a reserve for each eco - system marked as A B C D and E. (5 marks)



- iii. Describe three measures which have taken to conserve coastal eco - system and tank and reservoir system in Sri Lanka. (6 marks)
- iv. Explain with examples three measures which have been taken by Sri Lanka in order to conserve environment. (6 marks)

Part – II (Human Geography)

05. Nature of Sex ratio is shown in following table.

Sex ratio of Sri Lanka 1981 - 2012

Age structure	1981	2012
0-4	103.7	101.9
5-14	103.9	102.1
15-29	101.3	95.1
30-59	104.8	93.0
above 60	-	79.0
above 75	-	67.6

Source: Population report - 2014

- i. Define what is meant by sex ratio (3 marks)
 - ii. Explain how changes in sex ratio between 15 - 29 age group in 2012 have influenced in creating socio - economic problems in Sri Lanka. (6 marks)
 - iii. Explain how women's duties are changed with the changes occur in male population in sex ratio according to the factors you mentioned above II (5 marks)
 - iv. Explaining with reference to three factors how female's educations and employment influence on demographic concepts in Sri Lanka. (6 marks)
- 06.
- i. Define "gene technology" (4 marks)
 - ii. Explain briefly how gene technology has influenced on following sectors in agriculture
01. grain production
02. animal production (4 marks)
 - iii. Describe two advantages and two disadvantages of gene technology related to agriculture (6 marks)
 - iv. Sri Lanka has focused her attention on organic farming. Explain the suitability of organic farming (6 marks)

07. Distribution area of few industries in Sri Lanka is shown in following map.



- i. Identify and name the areas which are important for following industries which marked as A B C D E in the map above.
 1. Sugar industry
 2. garment
 3. tyre and tube
 4. cement

(2 marks)
 - ii. Explain 3 factors that have influenced the garment industry to become the leader in industrial sector in Sri Lanka.

(6 marks)
 - iii. Describe 2 government policies which are taken by various government on behalf of the garment sector.

(6 marks)
 - iv. Explain 3 temporal changes which have been taken place in garment sector in Sri Lanka

(6 marks)
- 08.
- i. Name four field in which the knowledge can be increased through International information provision Network. (Internet)

(4 marks)
 - ii. Explain with examples 3 facilities that internet provide

(6 marks)
 - iii. Explain how information technology is used in social and cultural sector in Sri Lanka (6 marks)
 - iv. A large number of problems have to be faced globally as a result of the impact of information technology. Describe three such problems faced by a developing country.

(6 marks)