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SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS-UG)

Geology

GEO 2C 03—DATA SOURCES OF REMOTE SENSING AND GIS

(2019 Admissions)

Time: Two Hours

Maximum: 60 Marks

Answer all questions.

Draw neat sketches wherever necessary.

Section A

- I. Answer in one or two sentences. Each question carries 2 marks:
 - Kirchoff's law.
 - 2 Passive remote sensing.
 - 3 Optical remote sensing.
 - 4 Spectral reflectance.
 - 5 Pitch and Yaw.
 - 6 Attitude sensors.
 - 7 GPS.
 - 8 Spectrometer.
 - 9 Hyperspectral imaging.
 - 10 LiDAR.
 - 11 Geodesy.
 - 12 Raster data model.

(Maximum 20 marks)

Section B

- II. Write short notes. Each question carries 5 marks:
 - 13 Microwave remote sensing.
 - 14 Types of satellite orbits.
 - 15 Sensor parameters.

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- 16 Methods of scanning in remote sensing.
- 17 GIS as a multidisciplinary science.
- 18 Application of GIS in Land Information System.
- 19 Non-spatial data models.

(Maximum 30 marks)

Section C

- III. Write long essay on any one of the following. The question carries 10 marks:
 - 20 Describe the different types of remote sensing platforms.
- 21 Give an account of the various sources of data in GIS.

(Maximum 10 marks)

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SECOND SEMESTER B.A./B.Sc. DEGREE EXAMINATION, APRIL 2020

(CBCSS-UG)

Geology

GEO 2B 03-DYNAMIC GEOLOGY AND GEO INFORMATICS

(2019 Admissions)

Time: Two Hours Maximum: 60 Marks

Answer all questions.

(Draw neat sketches wherever necessary)

Section A

- I. Answer in one or two sentences. (Each question carries 2 marks):
 - 1 Frost action.

2 Barchans

3 Inselbergs.

4 Moraine.

5 Consequent stream.

6 Knick-point.

7 Karst topography.

8 Water table.

9 Vector data.

0 Overlay functions.

11 EMR.

12 Temporal resolution.

(Maximum 20 marks)

Section B

- II. Write short notes. (Each question carries 5 marks):
 - 13 Factors influencing weathering.
 - 14 Glacial erosional landforms.
 - 15 Drainage patterns.
 - 16 Types of aquifers.
 - 17 Spatial data input in GIS.
 - 18 Application of GIS in mineral exploration.
 - 19 Multispectral Scanning Systems.

(Maximum 30 marks)

Section C

- III. Write long essay on any of the following. (Each question carries 10 marks):
 - 20 Describe the geological work of stream highlighting on the erosional and depositional fluvial landforms.
- CHINIX LIBRARY UNIVERSITY OF CALL 21 Give a brief account of the types of sensors and platforms in remote sensing.

(Maximum 10 marks)