



‘সমানো মন্ত্র: সমিতি: সমানী’

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 1st Semester Examination, 2021

CC1-GEOGRAPHY

GEOTECTONIC

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

SECTION- I

1. Define any *five* the following terms: 1×5 = 5
- | | |
|------------------------------|---|
| (a) Carboniferous period | 1 |
| (b) Mohorovicic | 1 |
| (c) Geothermal Gradient | 1 |
| (d) Orogenic Movement | 1 |
| (e) Triple junction | 1 |
| (f) Compensation level | 1 |
| (g) Destructive Plate Margin | 1 |
| (h) Jig-saw-fit. | 1 |

SECTION- II

2. Answer any *three* questions from the following: 5×3 = 15
- | | |
|---|---|
| (a) Write a short note on Mesozoic era. | 5 |
| (b) Write a short note on the major characters of mantle and core. | 5 |
| (c) Briefly write on the theory of Isostasy as proposed by Airy with suitable diagrams. | 5 |
| (d) Write on the evidences of continental drifting in brief. | 5 |
| (e) Mention the different Lithospheric major and minor plates of the earth. | 5 |

SECTION- III

3. Answer any *two* questions from the following: 10×2 = 20
- (a) Briefly explain the interior structure of the earth based on the patterns of seismic waves. 10
- (b) Discuss the theory of mountain building as proposed by Kober with suitable diagrams. 10
- (c) Write on the Continental Drift theory as proposed by A. Wegener. 10
- (d) Define plate and explain the theory of Plate Tectonics. 3+7=10

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সামান্য মূল্যঃ সামিতিঃ সমানী

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Honours 1st Semester Examination, 2021

CC2-GEOGRAPHY

GEOMORPHOLOGY

Time Allotted: 2 Hours

Full Marks: 40

The figures in the margin indicate full marks.

SECTION- I

1. Define any *five* the following terms: 1×5 = 5
- (a) Endrumf 1
 - (b) Alluvial Cone 1
 - (c) Base Level of Erosion 1
 - (d) Braided channel 1
 - (e) Loess 1
 - (f) Exfoliation 1
 - (g) Inselberg 1
 - (h) Slope Replacement 1

SECTION- II

2. Answer any *three* questions from the following: 5×3 = 15
- (a) Write a short note on the concept of “Uniformitarianism”. 5
 - (b) Write a short note on ‘Pediplanation’. 5
 - (c) Write about the conditions of delta formation in short. 5
 - (d) Mention and write in brief the main erosional features formed by Valley Glacier. 5
 - (e) Mention the components of Slope in brief. 5

SECTION- III

3. Answer any *two* questions from the following: 10×2 = 20
- (a) Illustrate the fundamental concept. “The same physical processes and laws that operate today, operated throughout geological time, although not necessarily with the same intensity as now”. 10
 - (b) Discuss the concept of cycle of erosion as proposed by W. M. Davis with suitable diagrams. 10
 - (c) Discuss different landforms produced by glacial deposition with suitable diagrams. 10
 - (d) Discuss in detail the important erosional landforms produced by fluvial action with suitable examples. 10

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'समानो मन्त्रः समितिः समानी'

UNIVERSITY OF NORTH BENGAL

B.A./B.Sc. Programme 1st Semester Examination, 2021

DSC1/2/3-P1-GEOGRAPHY

PHYSICAL GEOGRAPHY

Time Allotted: 2 Hours

Full Marks: 40

*The figures in the margin indicate full marks.
All symbols are of usual significance.*

SECTION-I

1. Answer any **five** questions from the following:

1×5 = 5

निम्नलिखित ये-कोनो पाँचटि प्रश्नो उत्तर दाओः

कुनै पाँचवटा प्रश्नको उत्तर लेख्नुहोस्

(a) Define the term 'epicentre'.

भूमिकम्पेर उपकेंद्र काके बले ?

'एपिसेन्टर' शब्द परिभाषित गर्नुहोस्।

(b) What do you mean by 'SIMA'?

संज्ञा दाओः 'SIMA'.

'SIMA' भनेको के हो ?

(c) What is moho discontinuity?

मोहो विच्छाति कि ?

मोहो विच्छेद के हो ?

(d) Which instrument is used for earthquake measurement?

भूमिकम्प मापक यन्त्रेर नाम उल्लेख कर।

भूकम्प मापनको लागि कुन उपकरण प्रयोग गरिन्छ ?

(e) Who first gave the idea of 'Sea floor spreading'?

सागर तलेर प्रसारण (sea-floor spreading) मतवादटि प्रथम के दियेछिलेन ?

कसले पहिलो परक समुद्रको भुईँ फैलाउने विचार दिए ?

(f) What is anticlinorium?

उर्ध्वभङ्ग धारा (Anticlinorium) कि ?

'एयानीकलानोरियम' के हो ?

(g) Define 'Rift valley'.

संज्ञा दाओः स्रंस उपत्यका (Rift valley)

'रिफ्त' उपत्यका परिभाषित गर्नुहोस्।

(h) Who first postulated the idea of 'fluvial cycle of erosion'?

'नदीर ऋयचक्र' धारणाटि प्रथम के दियेछिलेन ?

कसले पहिलो परक नदिको क्षरणको चक्रको विचार प्रस्तुत गरे ?

SECTION- II

2. Answer any **three** questions from the following:

5×3 = 15

निम्नलिखित ये-कानो **तिन**टि प्रश्नर उत्तर दाओः

कुनै तीनवटा प्रश्नको उत्तर लेख्नुहोस्

(a) What are the different components of a fault? Give suitable diagrams. 5

एकटि च्युतिर (fault) विभिन्न अंशगुलि कि कि ? उपयुक्त चित्रसह वर्णना कर।

दोषका विभिन्न घटकहरू के हुन। उपयुक्त रेखाचित्र दिनुहोस्।

(b) Write down the various processes of fluvial erosion with diagrams. 5

नदीर ऋयेर विभिन्न प्रक्रिया (Process) गुलि चित्रसह वर्णना कर।

रेखाचित्रको साथ नदी क्षरणीयको विभिन्न प्रक्रियाहरू लेख्नुहोस्।

(c) Write down the characteristics of different seismic waves related to the earthquake. 5

डू-कम्प तरङ्गगुलिर् वैशिष्ट्य वर्णना कर।

भूकम्पसँग सम्बन्धित भूकम्पीय तरंगका विशेषताहरू लेख्नुहोस्।

(d) Describe the depositional landform created by glacier. 5

हिमबाहेर सङ्गयजात भूमिरूपगुलिर् वर्णना दाओ।

हिमनदी द्वारा वनाईएको निक्षेप भूमि स्वरूपको वर्णन गर्नुहोस्।

(e) Distinguish between normal fault and reverse fault. 5

स्वाभाविक च्युति (Normal fault) ओ विपरीत च्युतिर (Reverse fault) पार्थक्य लेख।

सामान्य दोष र उल्टो दोष बीच भेद गर्नुहोस्।

SECTION-III

3. Answer any **two** questions from the following:

10×2 = 20

निम्नलिखित ये-कानो **दु**टि प्रश्नर उत्तर दाओः

कुनै दुईवटा प्रश्नको उत्तर लेख्नुहोस्

(a) Attempt a classification of various types of folds with suitable diagram. 10

विभिन्न प्रकारेर डाँजेर श्रेणीविभाग करे चित्रसह वर्णना कर।

उपयुक्त रेखाचित्रको साथ विभिन्न प्रकारका तहहरूको वर्गीकरण गर्ने प्रयास गर्नुहोस्।

- (b) Describe the erosional landform created by river with suitable diagrams. 10

নদীর ক্ষয়কার্যের ফলে গঠিত ভূমিরূপগুলি চিত্রসহ বর্ণনা দাও।

उपयुक्त रेखाचित्रको साथ नदी द्वारा सिर्जना गरिएको क्षरण भूमिको वर्णन गर्नुहोस्।

- (c) Give a detail account of the earth's interior structure with suitable diagrams. 10

চিত্রসহ ভূ-অভ্যন্তরের (Earth Interior) বর্ণনা দাও।

उपयुक्त रेखाचित्र सहित पृथ्वीको भित्री संरचनाको विस्तृत विवरण दिनुहोस्।

- (d) Define Plate. Discuss the different types of plate boundaries with suitable diagrams. 2+8 = 10

সংজ্ঞা দাওঃ 'Plate'। বিভিন্ন ধরনের পাত সীমানা (Plate boundary) গুলি চিত্রসহ বর্ণনা কর।

प्लेट परिभाषित गर्नुहोस्। उपयुक्त रेखाचित्रको साथ विभिन्न प्लेट सीमाहरूबारे छलफल गर्नुहोस्।

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