

**2 0 2 3**

( NEP—2020 )

( 1st Semester )

**GEOGRAPHY (MAJOR)**

**( Physical Geography )**

*Full Marks : 75*

*Time : 3 hours*

*The figures in the margin indicate full marks for the questions*

**( SECTION : A—OBJECTIVE )**

( Marks : 10 )

Tick (✓) the correct answer in the brackets provided :

1×10=10

1. According to Interstellar Dust Hypothesis, the embryos which form as a result of aggregate and accretion in size to form

- (a) comets ( )
- (b) planets ( )
- (c) galaxies ( )
- (d) asteroids ( )

2. Which of the following best describes physical geography?

- (a) The study of how humans interact with their environment ( )
- (b) The study of the Earth's physical features and processes ( )
- (c) The study of different cultures and their practices ( )
- (d) The study of the movement of goods and people across borders ( )

3. Diastrophic forces are the ones that generally
  - (a) originate from the deep beneath the Earth's surface ( )
  - (b) originate from the surface of the earth ( )
  - (c) occurs between two plate boundaries ( )
  - (d) depending on the nature of the volcanic activity ( )
4. The hypothesis of seafloor spreading was put forward by
  - (a) Alfred Wegener ( )
  - (b) Harry Hess ( )
  - (c) Tuzo Wilson ( )
  - (d) W. J. Morgan ( )
5. The most authentic evidence about the composition and structure of the Earth is derived from
  - (a) temperature ( )
  - (b) pressure ( )
  - (c) volcanicity ( )
  - (d) seismic waves ( )
6. The volcanoes which continue to erupt periodically are called active volcanoes. Most of the active volcanoes are found in
  - (a) Circum-Pacific Belt ( )
  - (b) Mid-Oceanic Ridges ( )
  - (c) plate margins ( )
  - (d) plate boundaries ( )
7. When the rising magma reaches the Earth's surface, it is called
  - (a) intrusive igneous rock ( )
  - (b) volcanic rock ( )
  - (c) lava ( )
  - (d) plutonic rock ( )
8. A line joining places which experience the earthquake at the same time is known as
  - (a) homoseismal line ( )
  - (b) isoseismal line ( )
  - (c) isoseismic line ( )
  - (d) isochronous line ( )
9. Salinity in ocean water decreases when
  - (a) evaporation is more ( )
  - (b) wind velocity is high ( )
  - (c) rainfall is heavy ( )
  - (d) humidity is high ( )
10. Which among the following is a warm ocean current of the Pacific Ocean?
  - (a) Kuroshio current ( )
  - (b) Canary current ( )
  - (c) Labrador current ( )
  - (d) Benguela current ( )

**( SECTION : B—SHORT ANSWERS )**

( Marks : 15 )

Write short notes on any *five*, taking at least *one* from each Unit :

3×5=15

UNIT—I

1. The Big Bang Theory
2. Nebular hypothesis

UNIT—II

3. Evidences of continental drift theory
4. Seafloor spreading

UNIT—III

5. Active volcanoes
6. Types of metamorphism

UNIT—IV

7. Spring tides
8. Cold ocean currents

**( SECTION : C—DESCRIPTIVE )**

( Marks : 50 )

Answer *five* questions, taking at least *one* from each Unit :

10×5=50

UNIT—I

1. Explain the nature and scope of physical geography.
2. Describe the origin of solar system as proposed in the Interstellar Dust Hypothesis.

5+5=10

10

#### UNIT—II

3. What is an orogenic movement? Explain the different types of folds associated to orogenic movement. 10
4. Give an account of the theory of plate tectonics. 10

#### UNIT—III

5. With a suitable diagram, bring out the details of the internal structure of the Earth. 10
6. What is rock? Explain the formation of either igneous rock or sedimentary rock. 10

#### UNIT—IV

7. Examine the surface configuration of ocean floor. Illustrate your answer with suitable diagram. 10
8. What is salinity of ocean? Describe the distribution of salinity of the ocean. 3+7=10

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