2025

(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. Who among the following scholars first proposed the nebular hypothesis of the origin of solar system?

(a) Immanuel Kant ( )

(b) Hipparchus ( )

(c) Bernhard Schmidt ( )

(d) Laplace ( )

2. Who among the following scientists proposed the interstellar dust hypothesis?

(a) Chamberlin and Moulton ( )

(b) Jeans and Jeffreys ( )

(c) H. N. Russell ( )

(d) Otto Schmidt ( )

3. The idea of single landmass called Pangaea was given by
   (a) Dutton ( )
   (b) A. Wegener ( )
   (c) W. J. Morgan ( )
   (d) H. Hess ( )

4. The age of the seafloor goes on increasing with
   (a) distance from the coastal areas ( )
   (b) distance from the North and South Poles ( )
   (c) distance from the equator ( )
   (d) distance from the mid-oceanic ridge ( )

5. Volcanic rocks deposited below the surface of the earth due to intrusion of magma in the rock strata are called
   (a) plutonic rocks ( )
   (b) dyke ( )
   (c) basaltic rocks ( )
   (d) metallic volcanic rocks ( )

6. The place of the origin of an earthquake is called
   (a) epicenter ( )
   (b) seismic wave ( )
   (c) focus ( )
   (d) Benioff zone ( )

7. The Benguela Current is found in the
   (a) Atlantic Ocean ( )
   (b) Pacific Ocean ( )
   (c) Antarctic Ocean ( )
   (d) Indian Ocean ( )

8. The average salinity of ocean is
   (a) 25% ( )
   (b) 30% ( )
   (c) 35% ( )
   (d) 27% ( )

9. The greatest oceanic depths are found at
   (a) oceanic trenches ( )
   (b) abyssal plain ( )
   (c) aseismic ridges ( )
   (d) guyots ( )

10. Oceanic currents flowing under the influence of prevailing winds are known as

(a) streams ( )

(b) surface currents ( )

(c) warm currents ( )

(d) drifts ( )

(SECTION : B—SHORT ANSWERS)

(*Marks* : 15)

Write short notes on *five* of the following, taking at least *one* from each Unit : 3×5=15

UNIT—I

1. The Big Bang Theory
2. Nebular hypothesis of Laplace

UNIT—II

3. Epeirogenetic forces
4. Evidences in support of theory of continental drift

UNIT—III

5. Active and dormant volcanoes
6. Causes of earthquakes

UNIT—IV

7. Types of tides
8. Kuroshio Current

(SECTION : C—DESCRIPTIVE)

(*Marks* : 50)

Answer *five* of the following questions, taking at least *one* from each Unit : 10×5=50

UNIT—I

1. What do you mean by physical geography? Discuss its nature and scope. 2+8=10

2. Describe the origin of solar system as propounded by Marquis de Laplace. 10

UNIT—II

3. What do you mean by endogenetic forces? Describe different types of fault and landforms produced by them. 2+(4+4)=10

4. Explain the theory of plate tectonics. 10

UNIT—III

5. Explain the interior structure of the earth with suitable diagram. 8+2=10

6. What are rocks? Mention different types of rocks and describe the formation of any one of them in detail. 3+(2+5)=10

UNIT—IV

7. Describe the surface configuration of the ocean floor with suitable diagrams. 8+2=10

8. What is ocean current? Discuss the significance of ocean currents in shaping global climatic patterns and marine ecosystem. 2+8=10

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