



Ba/Bs/EVS/M-1T

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(FYUGP)

(1st Semester)

ENVIRONMENTAL SCIENCE

(Minor)

Paper Code : EVS/M-1T

(Earth and Earth Surface Processes)

Full Marks : 75

Pass Marks : 40%

Time : 3 hours

(PART : B—DESCRIPTIVE)

(Marks : 50)

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

1. (a) What is Holocene? Describe the role of human in shaping landscapes. 2+8=10

Or

- (b) Elaborate on the formation of the present earth system. 10

2. (a) What is plate tectonic? Elaborate on the different plate boundaries created due to the movement of plates. 3+7=10

Or

- (b) Explain the concept of seafloor spread and orogeny. 5+5=10

3. (a) Differentiate between minerals and rocks. Elaborate on the major rock-forming minerals. 4+6=10

Or

- (b) What is weathering? Elaborate on the physical weathering. 2+8=10

4. (a) Elaborate on the composition and optical properties of the earth's atmosphere. 5+5=10

Or

- (b) Define glacier. Describe the various landforms found in a glaciated landscape. 2+8=10

5. (a) Describe the formation of the Peninsular Mountain systems and the Himalayas. 5+5=10

Or

- (b) Explain the formation of the Indo-Gangetic plains and the progression of agriculture in Indian subcontinent. 5+5=10

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ENVIRONMENTAL SCIENCE

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Paper Code : EVS/M-1T

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(PART : A—OBJECTIVE)

(Marks : 25)

The figures in the margin indicate full marks for the questions

SECTION—I

(Marks : 15)

A. Put a Tick (✓) mark against the correct answer in the brackets provided : 1×15=15

1. According to the Big Bang Theory, everything in the universe emerged from a point known as singularity about

(a) 13·7 billion years ago ()

(b) 14·7 billion years ago ()

(c) 15 billion years ago ()

(d) 13 billion years ago ()

2. The outermost layer of the interior of the earth also called as crust is mainly constituted of
- (a) silica and aluminium ()
 - (b) silica and magnesium ()
 - (c) iron and nickel ()
 - (d) None of the above ()
3. According to the Geological Time Scale, modern human evolved during which era?
- (a) Paleozoic ()
 - (b) Mesozoic ()
 - (c) Cenozoic ()
 - (d) Proterozoic eon ()
4. Convergent boundaries are also known as
- (a) destructive boundaries ()
 - (b) constructive boundaries ()
 - (c) destroying boundaries ()
 - (d) conservative boundaries ()
5. Seafloor spreading was proposed by
- (a) Arthur Holmes ()
 - (b) Harry Hess ()
 - (c) Wegener ()
 - (d) None of them ()

6. The average gravitational pull of the earth is _____ meters per second squared.

(a) 9.81 () (b) 8.91 ()

(c) 7.41 () (d) 9.02 ()

7. Which type of rock is also called as parent rock or primary rock?

(a) Igneous rock ()

(b) Sedimentary rock ()

(c) Metamorphic rock ()

(d) All of the above ()

8. _____ is the mechanical fracturing and chemical decomposition of rocks, *in situ*, by the natural agents.

(a) Erosion ()

(b) Weathering ()

(c) Wedging ()

(d) Abrasion ()

9. Sediments deposited by glaciers are called as

(a) aeolian deposits ()

(b) regolith ()

(c) moraines ()

(d) alluvial deposits ()

10. The average amount of water vapour is nearly _____% of the atmosphere by volume.

(a) 3 ()

(b) 4 ()

(c) 2 ()

(d) 1 ()

11. The Himalayas were created because of the convergence of two continental plates. They are

(a) Indian Plate and Asian Plate ()

(b) Indian Plate and Eurasian Plate ()

(c) Asian Plate and Eurasian plate ()

(d) Asian Plate and African Plate ()

12. The South-West Monsoon starts retreating by _____ from the state of Rajasthan.

(a) 5th September ()

(b) 12th September ()

(c) 1st September ()

(d) 2nd September ()

13. The Indus Valley Civilization known as the earliest urban culture of the Indian subcontinent existed between

(a) 3300–1900 BCE ()

(b) 2900–1900 BCE ()

(c) 4204–1804 BCE ()

(d) 3200–1900 BCE ()

14. Which of the following is the oldest mountain range found in India?

(a) Vindhayas ()

(b) Himalayas ()

(c) Aravallis ()

(d) Western Ghats ()

15. The word 'erosion' has been derived from a Latin word 'erodere' which means

(a) to break ()

(b) to gnaw ()

(c) to soften ()

(d) to move ()

(6)

SECTION—II

(Marks : 10)

B. Write on any *five* of the following :

2×5=10

1. Mantle Convection

2. Isostasy

3. Cultural Landscapes

4. Metamorphism

5. Orogeny

6. Optical Properties of the Atmosphere

7. Hotspot

8. Western and Eastern Ghats

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