Life on Earth

Standard difficulty · 20 questions · 40 marks · Time: 37 minutes

Name: _____ Date: _____ Score: ____ / 40

Write full answers in Sections B and C. Answers are on the last page — try every question first!

Section A — Choose the correct answer — 8 × 1 = 8 marks

1. A large natural region with similar climate, plants and animals is a:
   (a) nation **(b)** delta **(c)** habitat **(d)** biome

2. Which is an example or feature of the hot desert biome?
   (a) the Sahara **(b)** the Rann of Kutch
   (c) pines, spruces and larches **(d)** mosses and lichens on frozen ground

3. Tripura Queen Pineapple has a GI tag from which state?
   (a) Odisha **(b)** Goa **(c)** Assam **(d)** Tripura

4. Where is the traditional water tank called a kere found?
   (a) Ladakh **(b)** Gondwana **(c)** Karnataka **(d)** Tamil Nadu

5. What is meant by “ecological commons”?
   (a) low-impact travel that helps local people
   (b) a store of rich genetic resources
   (c) tropical grassland with scattered trees
   (d) shared natural resources

6. About 36% of India’s forest cover is fire-prone. If a state has 7,000 square km of forest, about how much would be fire-prone at that rate?
   (a) 2,520 square km **(b)** 25,200 square km
   (c) 4,480 square km **(d)** 280 square km

7. Aquatic biomes cover about three-fourths of the Earth’s surface. In a map region of 2,800 square km matching that share, how much is water?
   (a) 2,800 square km **(b)** 700 square km
   (c) 2,100 square km **(d)** 1,400 square km

8. Suppose a village manages 2,800 hectares of forest shared by 250 families. How many hectares is that per family? (Mendha Lekha manages 1,800 ha.)
   (a) 2,550 hectares **(b)** 700,000 hectares
   (c) 11.2 hectares **(d)** 12.2 hectares

Section B — Short answer — 8 × 2 = 16 marks

9. What decides the kind of biome in a place?

10. Give an example or feature of each biome: (a) taiga (b) tundra

11. Which state is each GI product from? (a) Tezpur Litchi (b) Channapatna Toys

12. Explain each term: (a) savanna (b) ecotourism

13. Where is each kind of tank found? (a) kata (b) chevuru

14. A district has 15,000 square km of forest. Using the book's figures, about how much is fire-prone (36%) and how much extremely fire-prone (4% of the total)?

15. The Indian Fisheries Act was passed in 1897 and the Forest Rights Act in 2006. How many years apart were they, and how many years before 2046 was the Forest Rights Act?

16. Aquatic biomes cover about three-fourths of the Earth's surface. In a region of 65,000 square km with that share, how much is water and how much land?

Section C — Longer answers — 4 × 4 = 16 marks

17. Describe the tropical rainforest biome.

18. Match each with its state: (a) Khasi Mandarin (b) Tripura Queen Pineapple (c) Tezpur Litchi. Choose from: Meghalaya; Tripura; Assam.

19. A state has 20,000 square km of forest, 4% of it managed by village communities. (a) How many square km is that? (b) Why do communities look after forests? (c) Give one example of people protecting forests.

20. Compare the taiga biome (pines, spruces and larches) with the temperate grassland biome (the prairies and steppes): describe the climate and the plants or animals of each.

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Answer key

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Q	Answer	Working
1	(d) biome	—
2	(a) the Sahara	—
3	(d) Tripura	—
4	(c) Karnataka	—
5	(d) shared natural resources	—
6	(a) 2,520 square km	36% of 7,000
7	(c) 2,100 square km	2,800 × 3 ÷ 4
8	(c) 11.2 hectares	2,800 ÷ 250
9	Temperature, rainfall, the main plants and how those plants grow.	—
10	(a) pines, spruces and larches (b) mosses and lichens on frozen ground	—
11	(a) Assam (b) Karnataka	—
12	(a) tropical grassland with scattered trees (b) low-impact travel that helps local people	—
13	(a) Gondwana (b) Andhra Pradesh and Odisha	—
14	about 5,400 and 600 square km	36% and 4% of 15,000
15	109 years; 40 years	2006 − 1897; 2046 − 2006
16	water 48,750 square km, land 16,250 square km	65,000 × 3 ÷ 4
17	Found between 23.5° N and 23.5° S, hot and wet all year, with layers from the emergent trees to the forest floor; the largest are in the Amazon, Congo and Southeast Asia.	—
18	(a) Meghalaya (b) Tripura (c) Assam	—
19	(a) 800 square km (b) They depend on forests for fuel, fodder, food and water, so they want them to last. (c) e.g. the Chipko movement or Mendha Lekha village.	4% of 20,000
20	taiga and temperate grassland: climate and life as described in the chapter.	—

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