Diversity in the Living World

Standard difficulty · 20 questions · 40 marks · Time: 36 minutes

Name: _____ Date: _____ Score: ____ / 40

Show your working for 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. The variety of plants and animals found in a place is called:
(a) adaptation **(b)** germination **(c)** habitat **(d)** biodiversity

2. Jasmine bush is a:
(a) creeper **(b)** climber **(c)** shrub **(d)** tree

3. Which of these plants has a TAPROOT?
(a) rice **(b)** maize **(c)** gram (chana) **(d)** wheat

4. Which of these plants has leaves with PARALLEL veins?
(a) banana **(b)** pea **(c)** mango **(d)** bean

5. Which feature helps the eagle live in its home?
(a) gills for breathing in water
(b) long, thick hair to keep warm in the cold
(c) broad, padded feet for walking on sand
(d) sharp eyesight to spot prey from high up

6. Which of these lives both on land and in water?
(a) fish **(b)** octopus **(c)** crocodile **(d)** lion

7. Each gram seed has 2 cotyledons. How many cotyledons are there in 29 gram seeds?
(a) 31 **(b)** 58 **(c)** 29 **(d)** 116

8. A garden survey found 17 herbs, 20 shrubs and 9 trees. How many plants were counted in all?
(a) 51 plants **(b)** 56 plants **(c)** 37 plants **(d)** 46 plants

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

9. What is biodiversity?

10. Is each a herb, shrub, tree, climber or creeper? (a) money plant (b) watermelon

11. Does each have a "taproot" or "fibrous" roots? (a) wheat (b) hibiscus

12. Does each have "reticulate" or "parallel" venation? (a) bamboo (b) mustard

13. Where does each live: "land", "water" or "both"? (a) frog (b) cow

14. How is each suited to where it lives? (a) woodpecker (b) duck

15. A forest patch had 33 kinds of birds. After many trees were cut, 21 kinds were no longer seen. How many kinds were left?

16. A school planted 5 rows of herbs with 8 plants in each row. How many herbs were planted?

Section C — Word problems — 4 × 4 = 16 marks

17. Explain how plants are grouped into herbs, shrubs and trees, with an example of each.

18. Sort these animals into "land", "water" and "both": frog, whale, octopus, lion, cow, deer. Choose one and say how its body suits its home.

19. Sort these into two groups by their roots and leaf veins: gram (chana), carrot, bamboo, banana. What links the type of root to the type of veins?

20. Bird-watchers saw 75 kinds of birds in a wetland ten years ago and 53 kinds this year. (a) How many fewer kinds were seen? (b) Give two reasons why this may have happened and two ways to help.

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Answer key

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Q	Answer	Working
1	(d) biodiversity	—
2	(c) shrub	—
3	(c) gram (chana)	—
4	(a) banana	—
5	(d) sharp eyesight to spot prey from high up	—
6	(c) crocodile	—
7	(b) 58	29 × 2 = 58
8	(d) 46 plants	17 + 20 + 9 = 46
9	The variety of living things (plants, animals and others) found in a place.	—
10	(a) climber (b) creeper	—
11	(a) fibrous (b) taproot	—
12	(a) parallel (b) reticulate	—
13	(a) both (b) land	—
14	(a) a strong, sharp beak to drill into bark (b) webbed feet for paddling	—
15	12 kinds	33 − 21 = 12
16	40 herbs	5 × 8 = 40
17	Herbs are small with soft, green stems (tulsi). Shrubs are medium-sized with many hard stems branching near the ground (hibiscus). Trees are tall with one thick, hard trunk that branches high up (mango).	—
18	Land: lion, cow, deer. Water: whale, octopus. Both: frog. Any correct feature of the animal chosen.	—
19	Taproot and reticulate veins: gram (chana), carrot. Fibrous roots and parallel veins: bamboo, banana. Plants with taproots usually have net-like veins; those with fibrous roots have parallel veins.	—
20	(a) 22 kinds (b) Reasons: the wetland was filled in or polluted, trees were cut, hunting. Help: protect and clean	75 − 53 = 22

Q	Answer	Working
	the wetland, plant trees, stop hunting and littering.	

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