Nature Trail

Standard difficulty · 20 questions · 40 marks · Time: 54 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. An insect has:
   (a) four pairs of legs **(b)** no legs
   (c) two pairs of legs **(d)** three pairs of legs

2. Which beak does the sunbird have?
   (a) a long, thin beak to drink nectar
   (b) a strong, curved beak to crack nuts and eat fruit
   (c) a long, pointed beak to catch fish
   (d) a flat, broad beak to find food in water

3. Which of these is an insect?
   (a) centipede **(b)** frog **(c)** spider **(d)** butterfly

4. Which of these is NOT an insect?
   (a) scorpion **(b)** ant **(c)** praying mantis **(d)** beetle

5. Which of these plants has leaves with PARALLEL veins?
   (a) neem **(b)** banana **(c)** rose **(d)** guava

6. In the web of life, which of these animals mainly eats flies and mosquitoes?
   (a) deer **(b)** frog **(c)** tiger **(d)** butterfly

7. How many legs do 14 insects have in all?
   (a) 20 legs **(b)** 112 legs **(c)** 84 legs **(d)** 56 legs

8. 47 students go on a nature trail. Each jeep can carry 8 students. How many jeeps are needed so that everyone can go?
   (a) 5 jeeps **(b)** 7 jeeps **(c)** 6 jeeps **(d)** 39 jeeps

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

9. Write two safety rules to follow in a forest or a zoo.

10. Is it an insect? Write "yes" or "no": (a) earthworm (b) mosquito

11. Are the veins of these leaves "parallel" or "net-like"? (a) banana (b) mango

12. Write "land animal" or "bird": (a) sparrow (b) tiger

13. How does each move? (a) frog (b) earthworm

14. Arya counted 5 insects and 5 spiders on a bush. How many legs is that in all? (An insect has 6 legs, a spider 8.)

15. On the trail, the children saw 7 kinds of birds before lunch and 11 kinds after lunch. 2 kinds were seen both times. How many different kinds of birds did they see?

16. The nature trail began at 7 a.m. and lasted 3 hours. At what time did it end?

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

17. Explain the "web of life" game. What happens when one player is removed, and what does it show?

18. A forest has 28 deer, 2 tigers and 40 birds. (a) How many animals and birds are there in all? (b) How many legs do the deer have together? (c) What would happen to the tigers if the grass dried up?

19. Each of 3 groups collects 9 different leaves on the trail. (a) How many leaves are collected in all? (b) Write two ways to describe a leaf, and the two kinds of vein patterns.

20. Describe the beak of each bird and how it helps the bird eat: (a) parrot (b) duck

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Answer key

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Q	Answer	Working
1	**(d) three pairs of legs**	six legs in all
2	**(a) a long, thin beak to drink nectar**	—
3	**(d) butterfly**	—
4	**(a) scorpion**	—
5	**(b) banana**	—
6	**(b) frog**	—
7	**(c) 84 legs**	6 legs each: 6 × 14 = 84
8	**(c) 6 jeeps**	47 ÷ 8 = 5 remainder 7, so one more jeep: 6
9	**Any two: do not tease or feed animals; do not damage trees and flowers; do not throw garbage; do not bring polythene bags.**	—
10	**(a) no (b) yes**	—
11	**(a) parallel (b) net-like**	—
12	**(a) bird (b) land animal**	—
13	**(a) jumps (b) crawls**	—
14	**70 legs**	6 × 5 + 8 × 5 = 30 + 40 = 70
15	**16 kinds**	7 + 11 − 2 = 16
16	**10 a.m.**	7 a.m. + 3 hours
17	**Each player is a plant, animal or natural thing, and they pass yarn to those they are linked to (a tree gives food to a bird). Removing one, like the deer, weakens the web, because the tiger loses food. It shows everything in nature is connected.**	—
18	**(a) 70 (b) 112 legs (c) The deer would have less to eat and become fewer, so the tigers would have less food.**	28 + 2 + 40 = 70; 4 × 28 = 112
19	**(a) 27 leaves (b) Colour, shape or texture (any two); net-like and parallel veins.**	3 × 9 = 27
20	**(a) a strong, curved beak to crack nuts and eat fruit (b) a flat, broad beak to find food in water**	—

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