Growing up with Nature

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. The Palash tree is called the "flame of the forest" because:
   (a) it grows only near volcanoes
   (b) its leaves glow at night
   (c) it catches fire easily
   (d) its orange-red flowers make the forest look on fire from far away

2. A natural dye made from marigold flowers is mostly:
   (a) brown **(b)** blue **(c)** yellow **(d)** green

3. At home, people often use ginger for:
   (a) vitamin C to stay healthy **(b)** stomach ache
   (c) cough and cold **(d)** a sore throat

4. Which of these belongs in a first-aid box?
   (a) sticking plaster **(b)** comic book
   (c) cricket ball **(d)** chocolate bar

5. Which of these is a NATURAL material used in village houses?
   (a) plastic sheet **(b)** cement block **(c)** bamboo **(d)** iron sheet

6. Which part of ginger is mostly used as a home remedy?
   (a) gel from the leaves **(b)** fruit
   (c) underground stem **(d)** seeds

7. In a solar-powered village, each of 43 houses has 3 solar panels. How many panels are there in all?
   (a) 132 panels **(b)** 46 panels **(c)** 129 panels **(d)** 172 panels

8. Grandmother boils marigold flowers for 60 minutes to make one pot of dye. How long will 4 pots take if she makes them one after another?
   (a) 300 minutes **(b)** 64 minutes **(c)** 240 minutes **(d)** 180 minutes

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

9. Why is Palash called the flame of the forest?

10. What colour of dye does each give? (a) indigo leaves (b) used tea leaves

11. Write "natural" or "man-made": (a) steel rod (b) wood

12. What is each used for at home? (a) aloe vera gel (b) neem oil

13. A family stores 24 kg of grain in each of 11 earthen pots. How much grain is stored in all?

14. A solar-powered village has 28 houses. Each house has 2 bulbs and 1 fan running on solar power. How many bulbs and fans are there in all?

15. Honey collectors sell 7 jars of forest honey at ₹390 a jar. How much money do they get?

16. 4 Palash trees each have about 11 bunches of flowers. About how many bunches is that?

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

17. Explain how to make a natural dye and use it to colour a handkerchief.

18. A class makes natural dye. 9 groups each boil 2 beetroots in 2 litres of water. (a) How many beetroots are used? (b) How many litres of water? (c) Write the steps to make the dye.

19. A family keeps 6 pots of rice, each with 12 kg, lined with neem leaves. (a) How much rice do they have? (b) If they use 4 kg a day, for how many full days will it last? (c) Why are neem leaves put in the pots?

20. Which part of each plant is used at home, and for what? (a) ajwain (carom) (b) tulsi (Indian basil)

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Answer key

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Q	Answer	Working
1	**(d) its orange-red flowers make the forest look on fire from far away**	—
2	**(c) yellow**	—
3	**(d) a sore throat**	—
4	**(a) sticking plaster**	—
5	**(c) bamboo**	—
6	**(c) underground stem**	—
7	**(c) 129 panels**	43 × 3 = 129
8	**(c) 240 minutes**	60 × 4 = 240
9	**When its bright orange-red flowers bloom, the whole forest looks reddish-orange from far away, like a flame.**	—
10	**(a) blue (b) brown**	—
11	**(a) man-made (b) natural**	—
12	**(a) small burns and dry skin (b) keeping mosquitoes away**	—
13	**264 kg**	11 × 24 = 264
14	**56 bulbs and 28 fans**	28 × 2 = 56; 28 × 1 = 28
15	**₹2,730**	7 × 390 = 2730
16	**44 bunches**	4 × 11 = 44
17	**Collect beetroot, hibiscus or marigold; boil them in 1 to 2 litres of water for half an hour to an hour, covered (with an elder); strain the liquid. Soak a light-coloured handkerchief in it overnight, squeeze it and dry it.**	—
18	**(a) 18 beetroots (b) 18 L (c) Cut the beetroot, boil it in water (with an elder), then strain the liquid.**	9 × 2 = 18; 9 × 2 = 18
19	**(a) 72 kg (b) 18 days (c) Neem keeps insects and pests away from the grain.**	6 × 12 = 72; 72 ÷ 4 = 18 (whole days)
20	**(a) seeds, for stomach ache (b) leaves, for cough and cold**	—

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