The Mystery of Food

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. Tiny living things that can only be seen with a microscope are called:
(a) seeds **(b)** crystals **(c)** insects **(d)** microbes

2. Dried red chillies is mostly kept from spoiling by:
(a) sealing in airtight packs **(b)** boiling and keeping it cold
(c) drying in the sun **(d)** lots of sugar

3. Which of these is made with the help of useful microbes?
(a) roasted corn **(b)** fruit salad **(c)** boiled egg **(d)** bread

4. Which of these is mostly a SUMMER fruit or vegetable?
(a) cucumber **(b)** green peas **(c)** cauliflower **(d)** carrot

5. Which of these is mostly a WINTER fruit or vegetable?
(a) muskmelon **(b)** cucumber **(c)** green peas **(d)** mango

6. Disha found that microbes need air and warmth to grow. What is the third thing they need?
(a) moisture **(b)** salt **(c)** sugar **(d)** darkness

7. Disha dried 640 g of tomato slices in the sun. They lost 9 out of every 10 parts of their weight as water. How much did the dried slices weigh?
(a) 320 g **(b)** 631 g **(c)** 576 g **(d)** 64 g

8. Each child has 20 milk teeth. How many milk teeth do 22 children have in all?
(a) 440 **(b)** 704 **(c)** 42 **(d)** 220

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

9. What three things do microbes need to grow?

10. Name the teeth: (a) the teeth that grind food (b) the flat teeth at the very front

11. Write "summer" or "winter" for when each is mostly found: (a) jackfruit (b) carrot

12. How is each kept from spoiling? (a) fruit juice in a carton (b) amla murabba

13. Which of these is made with the help of microbes: boiled rice or bread? Explain.

14. A pickle recipe uses 75 g of salt for every 1 kg of mangoes. How much salt is needed for 5 kg of mangoes?

15. At the market, tomatoes cost ₹23 a kg and onions ₹37 a kg. How much do 2 kg of tomatoes and 2 kg of onions cost?

16. Curd was set at 9 p.m. and it took 9 hours to set. At what time was it ready?

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

17. Explain why food spoils, and four ways to stop it.

18. Grandmother makes mango pickle. She uses 3 kg of mangoes for each jar and makes 6 jars. The mango pieces are dried in the sun for 7 days first. (a) How many kilograms of mangoes does she need? (b) Why are the pieces dried, and why is oil added?

19. In a class of 32 children, 21 brush their teeth twice a day. (a) How many do not? (b) Write two reasons to brush twice a day and one food habit that keeps teeth healthy.

20. Disha wants to keep amla murabba and fruit juice in a carton for months. For each, say how it is preserved and why that stops microbes.

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Answer key

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Q	Answer	Working
1	(d) microbes	—
2	(c) drying in the sun	—
3	(d) bread	—
4	(a) cucumber	—
5	(c) green peas	—
6	(a) moisture	—
7	(d) 64 g	640 ÷ 10 = 64
8	(a) 440	20 × 22 = 440
9	Moisture, air and warmth (a suitable temperature).	—
10	(a) molars (b) incisors	—
11	(a) summer (b) winter	—
12	(a) sealing in airtight packs (b) lots of sugar	—
13	bread: microbes in the batter or milk ferment it (it rises or turns sour).	—
14	375 g	75 × 5 = 375
15	₹120	23 × 2 + 37 × 2 = 46 + 74
16	6 a.m. the next morning	9 p.m. + 9 hours
17	Microbes grow on food when they get moisture, air and warmth, and make it smell and go bad. We stop them by drying (removing moisture), salting or adding sugar, covering with oil (keeping out air) and keeping food cold in a fridge.	—
18	(a) 18 kg (b) Drying removes moisture and oil keeps out air, so microbes cannot grow and the pickle keeps for months.	3 × 6 = 18
19	(a) 11 children (b) It removes bits of food and germs, and prevents cavities and bad breath; eat fewer sweets and sticky food (or rinse after eating).	32 − 21 = 11
20	(a) lots of sugar (b) sealing in airtight packs	—

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