How Things are Made

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 paper in our books is made mainly from:
   (a) sand **(b)** iron
   (c) melted plastic **(d)** wood pulp from trees

2. Which of the 5Rs is this: writing on both sides of a sheet of paper?
   (a) recycle **(b)** repurpose **(c)** reduce **(d)** reuse

3. Braille paper is mainly used for:
   (a) wrapping gifts **(b)** making packing boxes
   (c) cleaning and wiping **(d)** reading by touch

4. Recycled paper coloured with indigo turns:
   (a) blue **(b)** green **(c)** pink **(d)** yellow

5. Making recycled paper: what comes just before "soak the pieces overnight in water with fenugreek seeds"?
   (a) tear old newspaper into small pieces **(b)** mash or blend them into a wet pulp
   (c) freeze the pulp overnight **(d)** leave the sheets to dry

6. Each of 24 children saves 6 sheets of paper a week by writing on both sides. How many sheets does the class save in a week?
   (a) 120 sheets **(b)** 30 sheets **(c)** 144 sheets **(d)** 150 sheets

7. Pihu makes 3 sheets of recycled paper from every old newspaper. How many sheets can she make from 16 newspapers?
   (a) 51 sheets **(b)** 19 sheets **(c)** 48 sheets **(d)** 64 sheets

8. Pihu sells greeting cards made of recycled paper at ₹30 each. How much does she get for 11 cards?
   (a) ₹360 **(b)** ₹41 **(c)** ₹330 **(d)** ₹300

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

9. What is paper made from?

10. Which R is it (refuse, reduce, reuse, repurpose or recycle)? (a) carrying the same cloth bag to the shop every time (b) making old newspapers into new handmade paper

11. What colour does each give to paper? (a) marigold petals (b) indigo

12. What is each kind of paper mainly used for? (a) chart paper (b) Braille paper

13. Each of 7 groups collects 5 kg of old newspaper for recycling. How many kilograms are collected?

14. An old notebook has 160 pages. 90 pages are written on. How many blank pages can be reused for rough work?

15. Pihu spread her recycled paper sheets to dry at 11 a.m. They took 9 hours to dry. When were they ready?

16. A class makes paper masks. Each mask needs 10 strips of old newspaper. How many strips are needed for 4 masks?

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

17. Describe how to make recycled paper at home. Why is it good for the environment?

18. Each of 32 children saves 3 sheets of paper a week by writing on both sides. (a) How many sheets does the class save in a week? (b) In 10 weeks? (c) Which of the 5Rs is this, and why does it help trees?

19. Pihu makes 4 sheets of recycled paper from each of 6 old newspapers, then uses 4 sheets for each greeting card. (a) How many sheets does she make? (b) How many cards can she make? (c) Write the steps for making recycled paper.

20. Name the R for each and explain how it helps the environment: (a) cutting old clothes to make a bag (b) not accepting single-use paper cups at a party

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Answer key

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Q	Answer	Working
1	**(d) wood pulp from trees**	—
2	**(c) reduce**	—
3	**(d) reading by touch**	—
4	**(a) blue**	—
5	**(a) tear old newspaper into small pieces**	Steps: tear old newspaper into small pieces; soak the pieces overnight in water with fenugreek seeds; mash or blend them into a wet pulp; spread the pulp and roll it into thin sheets; leave the sheets to dry
6	**(c) 144 sheets**	24 × 6 = 144
7	**(c) 48 sheets**	16 × 3 = 48
8	**(c) ₹330**	30 × 11 = 330
9	**Mostly from wood pulp from trees; it can also be made from recycled paper or banana fibre.**	—
10	**(a) reuse (b) recycle**	—
11	**(a) orange (b) blue**	—
12	**(a) school projects and posters (b) reading by touch**	—
13	**35 kg**	7 × 5 = 35
14	**70 pages**	160 − 90 = 70
15	**8 p.m.**	11 a.m. + 9 hours
16	**40 strips**	4 × 10 = 40
17	**Tear old newspapers, soak them overnight with fenugreek seeds, mash into a pulp, spread and roll into thin sheets, and dry. It saves trees, water and energy and reduces waste.**	—
18	**(a) 96 sheets (b) 960 sheets (c) Reduce: using less paper means fewer trees are cut to make paper.**	32 × 3 = 96; × 10 = 960
19	**(a) 24 sheets (b) 6 cards (c) Tear newspaper, soak overnight with fenugreek seeds, mash into pulp, spread and roll thin, dry.**	6 × 4 = 24; 24 ÷ 4 = 6 (whole cards)
20	**(a) repurpose (b) refuse. Each cuts down the waste we throw away, so fewer trees are cut and less water and energy are used.**	—