Section A: Multiple Choice (18 marks)


Section B: Structural questions (52 marks)

1. (a) Electronic balance (1)
   (b) Weight = (36.96 – 36.70) / 10 = 0.026 g (2 marks for steps, 1 mark for answer)

2. (a) Correct diagram (diagrams and labels of beaker, water, wire gauze, tripod, Bunsen burner, heat proof mat) (1 mark × 6)
   (b) 1. Close the air hole.
        2. Ignite a lighter. Put it near the mouth of the chimney.
        3. Turn on the gas tap.
        4. Open the air hole.
        (4, 1 mark for each step)
   (c) We should keep the laboratory well ventilated / open the windows / wear goggles / put a heat proof mat under the Bunsen burner (2, any two)
   (d) Fire extinguisher / fire blanket / sand bucket (2, any two)

3. (a) Microscope (1)
   (b) Cell membrane, nucleus, cytoplasm (3)
   (c) It is an animal cell (1). It is because it does not have a large vacuole / chloroplast / cell wall / are irregular in shape (2, any two answers)

4. Add some water to a measuring cylinder. Record the volume of water (1). Put the eraser into the cylinder. Record the total volume of the water and the eraser (1). The difference of these two values is the volume of the eraser (1). Communication (1 mark)

5. • Making observation, making hypothesis, drawing conclusion (3)
   • C → E → A → D → B (2)

6. (a) Length of the thread / angle of the thread / size of the mass / type of thread (3, any three suitable answers)
   (b) Stopwatch (1)
   (c) We could obtain more accurate results (1).
   (d) The weight of the mass does not affect the swinging time of the pendulum (1). It is because the swinging times using 50 g mass and 100 g mass are similar (1). Communication: 1 mark

- To be continued -
7. (a) Thermometer (1)
(b) Glass rod (1)
(c) Correct diagram (1 mark for title, 1 mark for labels of the axes, 1 mark for the points and values on the axes, 1 mark for lines connecting the points)

(d) –

(i) (1)

(ii) We should wash our hands with running water (1).

--- End of Section B ---

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