GRADE 7 INTEGRATED SCIENCE

MARKING SCHEME & TEACHER'S GUIDE

2026 | 50 MARKS | 1 HOUR 40 MINUTES

MARK DISTRIBUTION

Section	Questions	Marks
A	1–20	20
B	21–30	30
TOTAL		50

SECTION A: MULTIPLE CHOICE ANSWER KEY

Q	Ans	Q	Ans	Q	Ans	Q	Ans
1	B	2	C	3	C	4	A
5	B	6	A	7	B	8	A
9	B	10	A	11	B	12	C
13	B	14	D	15	C	16	A
17	A	18	A	19	A	20	A

SECTION A: PEDAGOGICAL JUSTIFICATIONS

1. B — A graduated pipette is designed for measuring a specified volume of liquid accurately.
2. C — The skull-and-crossbones symbol indicates a poisonous/toxic substance.
3. C — Distilled water is neutral and does not change blue litmus to red.
4. A — A thermometer measures temperature.
5. B — Density = mass ÷ volume = 180 g ÷ 60 cm^3 = 3 g/cm^3.
6. A — Running water is the immediate first-aid response for acid on skin.
7. B — Breast development is a puberty change specific to girls among the listed options.
8. A — Filtration removes insoluble soil particles from muddy water.
9. B — pH below 7 is acidic, pH 7 is neutral and pH above 7 is basic.
10. A — Wire gauze supports the container and distributes heat from the flame.
11. B — A ureter carries urine from a kidney to the urinary bladder.
12. C — Excessive alcohol intake can contribute to kidney problems.
13. B — Opening the air hole allows more air to mix with gas and gives a hotter flame.
14. D — The heart is not an excretory organ.
15. C — Oil and water form separate layers and therefore a heterogeneous mixture.
16. A — Grouping by observable similarities is observation and classification.
17. A — The air hole/collar allows air to enter and mix with gas.
18. A — Sweat leaves the body through sweat pores.
19. A — Solar energy is a natural source of electrical energy.
20. A — The fine adjustment knob is used for sharp, clear focusing after coarse focus.

SECTION B: STRUCTURED MARKING SCHEME

21(a) — 1 mark G = testis. *Accept 'testicle'.*

21(b) — 2 marks Any two functions of the penis: deposits semen/sperm into the female reproductive tract; passes urine out of the body. 1 mark each. *Accept equivalent scientifically correct wording.*

22(a)(i) — 1 mark Any one physical property of acids: sour taste; corrosive nature; turn blue litmus red; pH below 7. *Do not require tasting in a laboratory; accept only as a stated property.*

22(a)(ii) — 1 mark Any one: bitter taste; soapy/slippery feel; turn red litmus blue; pH above 7.

22(b)(i) — 1 mark Any one valid everyday use of an acid, e.g. vinegar/citric acid in food preparation or preservation; car battery acid in batteries.

22(b)(ii) — 1 mark Any one valid use of a base, e.g. soap making/cleaning; neutralising acidity in selected applications.