

KENYA JUNIOR SCHOOL EDUCATION ASSESSMENT (KJSEA)

INTEGRATED SCIENCE — PAPER 1 (905/1)

Paper Code: 905/1 | Year: KJSEA 2025 | MARKING SCHEME

SECTION A — Multiple Choice (30 marks, 1 mark each)

1. A	2. A	3. A	4. A	5. D	6. B
7. A	8. C	9. A	10. C	11. D	12. B
13. B	14. C	15. B	16. C	17. A	18. D
19. B	20. B	21. B	22. D	23. B	24. C
25. D	26. C	27. B	28. A	29. A	30. A

SECTION B — Structured Questions (40 marks)

Q	Expected Answer	Marks
31a	Any TWO of: measuring / observing / recording (1 mark each)	2
31b	Length — metre (m); Time — second (s) (1 mark each)	2
32a	Homogeneous: air, rain water; Heterogeneous: sandy water, beans and maize (½ mark each, accept reasonable alternatives)	2
32b	Evaporate the salt solution/heat the mixture until all water evaporates and dry salt crystals remain (award full marks for correct method with explanation)	2
33a	Carbon — C; Oxygen — O; Sodium — Na (1 mark each)	3
33b	Any ONE valid use, e.g. breathing/respiration; medical use; burning/combustion (1 mark)	1
34a	A — Solid; B — Liquid (1 mark each)	2
34b	X — Melting (solid to liquid); Y — Freezing/solidification (liquid to solid) (1 mark each)	2
35a	Any TWO: carbon dioxide (CO ₂); water (H ₂ O); light energy (1 mark each)	2
35b	Chloroplast (1 mark)	1
35c(i)	Broad leaf surface increases surface area for absorption of more sunlight/light energy	1
35c(ii)	Network of veins transports water and minerals to leaf cells and removes manufactured food	1
36a(i)	Any valid food chain ending with tertiary consumer, e.g.: Plants → Gazelle → Snake → Hawk (1 mark)	1
36a(ii)	Plants (1 mark)	1
36b	Award 2 marks for any TWO valid effects, e.g.: plants die due to lack of water; animals starve due to lack of food; food web disrupted; population of consumers decreases	2
37a	Any TWO of: ureter; urinary bladder; urethra (1 mark each)	2
37b	Award 2 marks matching functions to the parts named in (a): ureter — carries urine from kidney to bladder; bladder — stores urine; urethra — carries urine from bladder out of body	2
37c	Any TWO of: urea; excess water; excess salts/mineral ions (1 mark each)	2
38a	Cell (1 mark)	1
38b	The bulb lights up / circuit is complete and current flows (1 mark)	1
39a	Hold one end of the rope and move it up and down repeatedly / shake the free end up and down (2 marks for clear description of motion)	2
39b	Transverse wave (1 mark)	1
39c	Any ONE: light waves; water waves; electromagnetic waves (1 mark)	1
40a	Depth of liquid (1 mark)	1
40b	Water jet at R should be drawn pointing further out/more horizontal than the bottom jet — indicating greater pressure at greater depth (1 mark)	1
40c	Any ONE: density of the liquid (1 mark)	1

Total: 70 marks