**Year 8 Physics 1 Topic Test Answer Sheet Name: _____**

## Section 1: Multiple Choice

### Answer section

Circle your answer in the section below:

| | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| 1. | (A) | B | C | D | 16. | A | (B) | C | D |
| 2. | (A) | B | C | D | 17. | (A) | B | C | D |
| 3. | A | B | (C) | D | 18. | A | B | C | (D) |
| 4. | A | B | C | (D) | 19. | A | B | C | (D) |
| 5. | A | (B) | C | D | 20. | A | B | C | (D) |
| 6. | A | B | (C) | D | 21. | A | (B) | C | D |
| 7. | (A) | B | C | D | 22. | (A) | B | C | D |
| 8. | (A) | B | C | D | 23. | (A) | B | C | D |
| 9. | A | B | (C) | D | 24. | A | B | (C) | D |
| 10. | A | B | C | (D) | 25. | A | B | (C) | D |
| 11. | (A) | B | C | D | | | | | |
| 12. | A | B | C | (D) | | | | | |
| 13. | A | (B) | C | D | | | | | |
| 14. | A | (B) | C | D | | | | | |
| 15. | (A) | B | C | D | | | | | |

Total for M/C: _____ / 25 marks

## SECTION 2: WRITTEN

**Write your answers in the spaces provided.**

1. a) Pot.

   b) Pot.

   c) Pot.

   d) Achon

   e) Achon.

(1 mark each: ____ 5 marks)

2. a) E

   b) H

   c) Bread

   d) light

   e) Sun.

   f) wate.

   g) petrol / fossil fuel.

   h) heat.

   i) piston / engine / car any engine.

(1 mark each: ____ / 9 marks)

3. **Problem 1:** pollution / non renewable. (1)

(1 mark: ____ / 1 mark)

4. **Answer:** 650 J (1). ( ____ / 2 marks)

Area for working out:

output = $\frac{65}{100} \times 1000$ (1).

= 650 J

5. Energy flow diagram

chemical energy (coal) → heat (furnace) → Kinetic (turb) → electric (generator)

( ____ / 4 marks)

6. Heat Transfer

| Type of heat transfer | Explanation (1 mark each) | How well it occurs in solids, liquids, gas and space (2 marks each) |
|---|---|---|
| Conduction (1) | * one particle to another. particle near het source vibrate causing next particle to vibrate. | solid - good. liquid - good - no vacuum - not good in gas (2) |
| Convection (1) | * particles move further apart. * hotter section rise causing convection current. | not good in solid. - good in liquid & solid - no vacuum. (2) |
| Radiation (1) | - energy travels in waves. | - not good in solid - not good liquid or solid - good in vacuum. (2) |

( ____ / 9 marks)

**END OF TEST**

**Multiple Choice:** ___ /25

**Written:** ___ /30

**TEST TOTAL:** ___ /55