

**PHYSICS**  
**SUBJECT 5055**

**PAPER 3**

**GENERAL COMMENTS**

Most candidates performed very well with the majority doing well on question 4 which was challenging. Question 4 is the one which separated the intelligent from unintelligent.

**COMMENTS ON THE INDIVIDUAL QUESTION**

**QUESTION 1**

This question was well done. Most candidates scored all marks, but a few had problems with part (c).

**QUESTION 2**

This question was well done. Most candidates could take correct readings of current and angle, but they had problems with the significant figures for the angle of deflection.

Answers

- (a) To alter current values
- (b) Deflection angle to 2 significant figures
- (d) Deflection in opposite direction

**QUESTION 3**

Well done by most candidates.

Answers

- (c) Bright candidates linked the output to the AND gate.
- (d) (i) This was linked to OR gate.  
(ii) Switches in parallel and source and bulb in series.

## **QUESTION 4**

This question proved to be challenging. Some candidates were not consistent o the number of decimal places use for time. Most candidates had difficulties in graph work especially coming up with the line of best fit and a good scale. Weak candidates left the units for the gradient. Most candidates labelled zero (0) where there was a false origin.

### Answers

- (f) Temperature remains constant at boiling point
- (g) So that it does not burn out easily/safety.

## **MATTERS FOR THE SUBJECT MANAGER'S ATTENTION**

Questions should be specific as to the number of significant figures candidates should use.