

22.0 ELECTRICITY (448)

The final assessment for Electricity at KCSE level has always been based on paper 1, which is primarily a theory paper and paper 2 which is a practical paper. Both papers are marked out of 100 and scaled down to 60% and 40% respectively. The table below shows the candidates performance in Electricity for the 2004 examination together with the statistics for the previous three years.

Table 22: Candidates' Overall Performance in Electricity for the last Four years

Year	Paper	Candidature	Max. Score	Mean Score	Standard Deviation
2001	1		60	30.51	9.02
	2		40	24.36	5.86
	Overall	497	100	54.77	13.00
2002	1		60	29.92	8.07
	2		40	26.81	5.71
	Overall	508	100	56.62	11.83
2003	1		60	29.57	9.15
	2		40	23.16	5.33
	Overall	492	100	52.63	12.63
2004	1		60	31.22	9.64
	2		40	24.47	4.59
	Overall	515	100	55.68	12.00

From the table above, the following observations can be made:-

- i) There was an improvement in performance in both paper 1 and paper 2 compared to the previous year.
- ii) The mean score for paper 1 rose from 29.57 in 2003 to 31.22 in 2004. In paper 2 the mean score also rose by 1.31 to 24.47 in year 2004.
- iii) The overall mean score of 55.68 reflects a significant improvement in performance compared to 52.63 in the previous year.
- iv) The standard deviation of 12.00 for 2004 compares favourably with the previous three years.

In the following report, analysis of the candidates' performance in questions where poor performance was noted is made for both paper 1 and 2. Questions 7, 8, 9, 10 and 14 will be discussed while only general observations will be made regarding performance in paper 2. It should be noted that the discussions will mainly focus on the candidates' weaknesses, the expected responses and appropriate advice to teachers and students.