

21.0: POWER MECHANICS (447)

The Power Mechanics examinations for the year 2004 like all the previous years consisted of two papers namely, paper 1 (Theory) and paper 2 (Practical). The format for both papers was similar to the previous years.

The table below shows the candidates performance in both papers for year 2004. Data for the previous three(3) years has also been provided for the purpose of comparison.

Table 21: Candidates' Overall Performance in Power Mechanics for the Last Four Years

Year	Paper	Candidature	Max. Score	Mean Score	Standard Deviation
2001	1	322	60	28.14	10.51
	2		40	25.71	4.91
	Overall		100	51.43	15.00
2002	1	279	60	29.87	9.24
	2		40	28.65	4.57
	Overall		100	58.51	12.50
2003	1	311	60	30.42	8.43
	2		40	23.64	4.96
	Overall		100	54.18	11.44
2004	1	286	60	33.65	8.08
	2		40	27.57	3.86
	Overall		100	61.22	10.00

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

- There was a rise in performance in this subject in the year 2004 compared to the year 2003. The mean score for paper 1 rose by 3.23 while that of paper 2 rose by 3.93. This resulted in the overall mean rising significantly from 54.18 in year 2003 to 61.22 in the year 2004.
- The best performance in the four years under comparison is that of the year 2004 as depicted by the overall mean of 61.22 in the subject.

This report will address the weaknesses portrayed by candidates in both paper 1 and 2. Particular emphasis will be paid to questions which were identified as poorly done. The candidates' weaknesses will be pointed out and for each question the expected responses will be highlighted.

21.1 PAPER 1 (447/1)

In paper 1, the questions which were noted to have been poorly done were Question 2b, 3b, 5b, 8a and 11.