

TABLE C. *Results of Institution Examinations for Section B, 1946-48*

Branch.	1946.		1947.		1948.	
	Sat.	Passed.	Sat.	Passed.	Sat.	Passed.
Civil	8	8	24	24	48	37
Electrical	7	6	20	10	45	23
Mechanical	13	6	19	9	19	10
	28	20	63	43	112	70
Total studying beyond C.P.E.	220		300		500	

87. It will be noticed that the number of students sitting the Section B examination is only a small proportion of the total number studying. As a matter of interest it may be mentioned that the total number of those in training under some form of engineering cadetship is approximately 500.

88. It is exceedingly difficult to forecast what is likely to be the number who would qualify for Institution membership in a normal year apart from any action which might result from the Committee's recommendations. The general effect of these, too, remains to be seen. As opportunities for University study are increased, particularly on the financial side, the successors of the present Institution candidates will, it is hoped, take the degree courses. It must be remembered that in the last three years there have been, on the average, 100 Institution students in the University schools of engineering. As these students have been studying for the most part as full-time students, it may be expected that they figure to a large extent in the passes referred to in the above table. There should be a tendency for students of this type to transfer to the degree course, which would probably lower the number of successful candidates at Institution examinations. On the other hand, the recommendations for general improvement in facilities proposed by the Committee should, if implemented, result in a reduction in the average length of time taken by Institution candidates to qualify and in a smaller proportion of failures.

89. It is possible that there could be 50 completing their Institution membership qualification at the end of 1948 from those successful in 1948 and the two preceding years, and that this figure could be maintained for two or three years, reducing to, say, 40 for a year or two as the effect of increased numbers in the immediate post-war years becomes spent. From then onwards the numbers will be subject to the effect of the factors outlined in the previous paragraph.

(7) ESTIMATED TOTAL OUTPUT DURING THE NEXT FIVE YEARS

90. The estimates considered in the previous paragraphs are summarized below:—

Table D—*Estimated Output of Professional Engineers, 1948-52*

Year.				Graduates.	Institution Members.	Total.
1948	..	..	..	74	50	124
1949	..	..	..	100	50	150
1950	..	..	..	75	50	125
1951	..	..	..	60	40	100
1952	..	..	..	55	40	95
				364	230	594

i.e., an average of 119 annually during this short-term period.