

Fragment Only

COMMONWEALTH PUBLIC SERVICE.
FOURTH DIVISION.

Examination No. 2586.—22nd September, 1945, and
subsequent dates.

FOR PROMOTION OR TRANSFER AS SENIOR TECHNICIAN,
TELEPHONE, POSTMASTER-GENERAL'S DEPART-
MENT, ALL STATES.

70
WRITTEN EXAMINATION.

(c) TELEPHONY II.

Time allowed : Three hours.

The candidate must answer not more than six questions ; two
of which shall be from Section I. and four from Section II.

Maximum marks—

Telephony I.	..	100	} 200
Telephony II.	..	100	
Pass Marks	..	120	

SECTION I.

1. (a) What do you understand by the following terms :—
Space charge,
Amplification factor,
Mutual conductance,
Negative feedback. 10
- (b) What are the advantages of negative feedback as applied
to an amplifier ?
2. You are required to measure the frequency-loss characteristics
of a 3 Kc. high and low pass filter group. Describe the
testing equipment you would require and give a diagram
illustrating the test circuit you would employ. Describe
the procedure of the tests and state what precautions
would be necessary to ensure correct results.

[TURN OVER.