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Commercial Arithmetic (2nd Year): Technical School Examinations 1933

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Department of Education: Technical Instruction Branch, "Commercial Arithmetic (2nd Year): Technical School Examinations 1933" (1933). *Technical Schools:Examination Papers.* Paper 44.
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COURSE IN COMMERCE

AN ROINN OIDEACHAIS.
(Department of Education.)

BRAINSE AN CHEÁRD-OIDEACHAIS.
(Technical Instruction Branch.)

TECHNICAL SCHOOL EXAMINATIONS.
1933.

COMMERCIAL ARITHMETIC.

(Second Year.)

Monday, May 1st—7.45 to 9.45 p.m.

Examiner—J. C. MacGuigan, Esq., B.Comm.
Co-Examiner—J. F. Burke, Esq., D.Sc.

General Instructions.

You are carefully to enter on the Answer Book and Envelope supplied your Examination Number and the subject of examination, but you are not to write your name on either. No credit will be given for any Answer Book upon which your name is written, or upon which your Examination Number is not written.

You must not have with you any book, notes or scribbling-paper.

You must not, under any circumstances whatever, speak to or communicate with another candidate; and no explanation of the subject of the examination may be asked for or given.

You must remain seated until your answer-book has been taken up, and then leave the examination-room quietly. You will not be permitted to leave before the expiration of twenty minutes from the beginning of the examination, and will not be re-admitted after having once left the room.

If you break any of these rules, or use any unfair means, you are liable to be dismissed from the examination, and your examination may be cancelled by the Department.

Two hours are allowed for this paper. Answer-books, unless previously given up, will be collected at 9.45 p.m.

C were respectively 5 per cent., 7½ per cent., and 12½ per cent. on what the article cost them, by what percentage was D's cost price greater than A's?

[18 marks.]

7. The carriage on two packets amounts to £1 11s. 6d. The first weighs 7 cwt. 2 qrs. and is carried 40 miles; the second weighing 13 cwt. 3 qrs. is carried 24 miles. Calculate the respective charges made against the two packets.

[12 marks.]

8. What income would be received by investing £250 as far as possible in the £1 shares of the O'B. Company, Ltd., paying 10 per cent., at 34/- per share; brokerage 3d. a share? How many shares could be bought and what would the balance be?

[18 marks.]

INSTRUCTIONS.

Read the General Instructions on page 1.

(*a*) Not more than *six* questions may be attempted.

(*b*) Answers must be written in *ink*.

(*c*) Write the number of the question before the answer.

(*d*) Scribbling-paper must not be used; all the working must be done in the answer-book.

(*e*) Begin each question on a new page.

NOTE.—Squared paper will be supplied to you on application to the Superintendent.

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1. A sum of money is lent for 4 months at 6 per cent.; the interest and the principal then amount to £127 10s. 0d. What would have been the amount if the sum were lent for 5 months at 5½ per cent?

[16 marks]

2. The total receipts of an Electric Tramways undertaking are £982,275; the car miles run are 10,268,765; the number of passengers carried are 110,865,248. Find:—(*a*) Receipts per car mile; (*b*) Passengers per car mile; (*c*) Average fare per passenger.

[16 marks]

3. A machine purchased for £321 8s. 0d. is depreciated annually at the rate of 15 per cent. on its diminishing value. What is the amount at which it stands in the books 4 years after purchase?

[12 marks.]

4. A province in Germany has an area of 10,000 square Kilometres, and a population of 2,000,000. Given that 1 kilometre equals ⅝ mile, what is the population per square mile to the nearest ten?

[16 marks]

5. How much was received for a bill of £312 10s. 0d. dated 26th March and drawn for 5 months, if discounted on 3rd April at 4 per cent?

[16 marks]

6. An article passes through the hands of A, B and C before being purchased by D. If the profits of A, B and