

New CSI CSC2 Test Duration | Interactive CSC2 Questions

CSI104: Introduction to Computer Science

LAB 1

Duration: 90 mins

Objective:

- ☐ Describe the decimal, binary, hexadecimal, and octal system.
- ☐ Convert a number in binary, octal, or hexadecimal to a number in the decimal system.
- ☐ Convert a number in the decimal system to a number in binary, octal, and hexadecimal.
- ☐ Convert a number in binary to octal and vice versa.

Materials:

Based on exercises of chapter 2 in the textbook "Foundations Of Computer Science, 4nd Edition, Behrouz Forouzan, 2017."

Student's task:

- Review the whole chapter 2 content in the textbook.
- Write down solutions to exercises (**step by step**)
- Finish exercises and submit the results to the lecturer in class.

Scoring scale: 10

Exercise 1 (2.5 points): Convert decimal numbers to binary, octal and hexadecimal numbers, without using a calculator, showing your work

- | | | |
|-----------|------------|------------|
| a) 37.625 | b) 14 | c) 189 |
| d) 205 | e) 2313.25 | f) 511.125 |

Exercise 2 (2.5 points): Convert octal numbers to binary numbers hexadecimal numbers

- | | | |
|---------------------|----------------------|----------------------|
| a) 743 ₈ | b) 36 ₈ | c) 3777 ₈ |
| d) 257 ₈ | e) 1204 ₈ | f) 1432 ₈ |

Exercise 3 (2.5 points): Convert hexadecimal numbers to binary numbers octal numbers

- | | | |
|-----------------------|-----------------------|----------------------|
| a) AF ₁₆ | b) 1A2 ₁₆ | c) 234 ₁₆ |
| d) 12A4 ₁₆ | e) BC12 ₁₆ | f) 517 ₁₆ |

Exercise 4 (2.5 points): Change the following decimal numbers to binary numbers using the alternative method discussed in Examples 2.7 and 2.18, showing your work:

- | | | |
|-----------|---------------|-------------|
| a) 5.1875 | b) 11.640625 | c) 17.40625 |
| d) 2.375 | e) 13.0546875 | f) 4.234375 |

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CSI CSC2 Exam Syllabus Topics:

Topic	Details
Topic 1	<ul style="list-style-type: none"> Investment Products: This section of the exam measures the skills of an Investment Products Analyst and covers fixed-income securities features, pricing, and trading; equity securities including common and preferred shares; derivatives including options, forwards, futures, rights and warrants; and the characteristics and uses of all these investment instruments in Canadian markets.

Topic 2	<ul style="list-style-type: none"> • The Canadian Investment Marketplace: This section of the exam measures the skills of a Securities Industry Professional and covers the structure and operation of Canada's investment marketplace. It includes the roles of investment dealers and financial intermediaries, capital market functions, financial instruments, and the complete Canadian regulatory environment with its regulatory bodies, principles of regulation, client remediation options, and ethical standards for financial services professionals.
Topic 3	<ul style="list-style-type: none"> • The Economy: This section of the exam measures the skills of an Economic Analyst and covers fundamental economic concepts including microeconomics and macroeconomics, economic growth measurement, business cycles, labor markets, interest rates, inflation, international trade, and both fiscal and monetary policy with emphasis on the Bank of Canada's role and government policy challenges.
Topic 4	<ul style="list-style-type: none"> • Additional Topics: This section of the exam measures the skills of a Wealth Management Professional and covers Canadian taxation systems, tax-advantaged accounts, fee-based account structures, retail client financial planning and estate planning, institutional client management, and ethical standards for financial advisors serving both individual and institutional clients.

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CSI Canadian Securities Course Exam2 Sample Questions (Q61-Q66):

NEW QUESTION # 61

Which type of sell side equity revenue is earned when a dealer acts in the capacity of an agent in clients trade?

- A. Commission
- B. Interest
- C. Fees
- D. Spreads

Answer: A

Explanation:

In the context of sell-side equity revenue, when a dealer acts as an agent for a client's trade, the revenue is typically earned as a commission. The dealer facilitates the trade between buyers and sellers without taking ownership of the securities, earning fees for providing this service.

* Commission: Earned when the dealer acts as an agent.

* Spreads: Earned when the dealer acts as a principal, buying securities at one price and selling at a higher price.

* Fees: Charged for additional services, such as research or analytics.

* Interest: Earned from financing activities or margin accounts, not directly tied to trading.

* A. Fees: Incorrect; fees are typically charged for services, not for acting as an agent.

* B. Spreads: Incorrect; spreads are earned when the dealer acts as a principal.

* C. Interest: Incorrect; interest revenue is unrelated to acting as an agent.

* D. Commission: Correct answer. Acting as an agent involves earning commissions for facilitating trades.

Types of Revenue in Sell-Side Trading: Explanation of Options: References:

* CSC Volume 2, Chapter 27: The Role of Sell-Side Dealers, which details revenue models in institutional and retail trading.

NEW QUESTION # 62

A client recently sold her holdings in JKL Equity Fund. The client's transactions in the fund are summarized below:

Year	Description	Amount (\$)
1	Bought 500 JKL Equity Fund @ \$10.50 per unit (no load)	5,250.00
2	Reinvested distribution (75% capital gains; 25% Canadian dividends) Bought 20.5 JKL Equity Fund @ \$11.50 per unit	235.75
3	Reinvested distribution (80% capital gains; 20% Canadian dividends) Bought 35.5 JKL Equity Fund @ \$12.25 per unit	434.88
4	Sold 556 JKL Equity Fund @ \$12.75 per unit	7,089.00

What is the client's capital gain from the sale of the fund in Year 4?

- A. \$1,168.37
- B. \$2,509.63
- C. \$1,155.25
- D. \$1,839.00

Answer: A

NEW QUESTION # 63

What type of return is adjusted for inflation?

- A. Ex-ante
- B. Nominal
- C. Real
- D. Ex-post

Answer: C

Explanation:

The real rate of return refers to the return on an investment adjusted for the effects of inflation. Unlike nominal return, which reflects the raw return of an investment without considering inflation, the real return provides a clearer measure of an investment's actual purchasing power.

Formula for Real Rate of Return: The formula for calculating real rate of return is:

$$\text{Real Return} = \frac{\text{Nominal Return} - \text{Inflation Rate}}{1 + \text{Inflation Rate}}$$

For example, if an investment generates a nominal return of 5% and inflation during the period is 2%, the real return would be 3% (5% - 2%).

- * A. Ex-ante: Refers to a forecasted return, not necessarily adjusted for inflation.
- * B. Nominal: Measures the raw return without accounting for inflation.
- * C. Ex-post: Refers to a return based on historical data, which can be nominal or real.
- * D. Real: The correct answer, as it specifically accounts for inflation to measure the actual growth in purchasing power.

Explanation of Options: References:

* CSC Volume 2, Chapter 15: Real Returns and the Effect of Inflation, which explains the difference between real and nominal rates of return and their application in investment analysis.

NEW QUESTION # 64

Which carrying charge is tax deductible?

- A. Trustee fees for an RRIF.
- B. Fees paid for a safety deposit box.
- C. Interest paid on an RRSP loan.
- D. Interest paid on funds borrowed to buy dividend-paying shares.

Answer: D

NEW QUESTION # 65

Which would most likely be a violation of the Know Your Client Duty of Care guideline?

- A. Borrowing a client's excess funds held in their account

- Answer: B**

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