INSTRUCTIONS TO CANDIDATES

General Instructions

1. This afternoon session consists of 5 questions numbered 8 through 12 for a total of 40 points. The points for each question are indicated at the beginning of the question. Question 11 pertains to the Case Study, which is enclosed inside the front cover of this exam booklet.

2. Failure to stop writing after time is called will result in the disqualification of your answers or further disciplinary action.

3. While every attempt is made to avoid defective questions, sometimes they do occur. If you believe a question is defective, the supervisor or proctor cannot give you any guidance beyond the instructions on the exam booklet.

Written-Answer Instructions

1. Write your candidate number at the top of each sheet. Your name must not appear.

2. Write on only one side of a sheet. Start each question on a fresh sheet. On each sheet, write the number of the question that you are answering. Do not answer more than one question on a single sheet.

3. The answer should be confined to the question as set.

4. When you are asked to calculate, show all your work including any applicable formulas.

5. When you finish, insert all your written-answer sheets into the Essay Answer Envelope. Be sure to hand in all your answer sheets because they cannot be accepted later. Seal the envelope and write your candidate number in the space provided on the outside of the envelope. Check the appropriate box to indicate morning or afternoon session for Exam RETDAC.

6. Be sure your written-answer envelope is signed because if it is not, your examination will not be graded.

Tournez le cahier d’examen pour la version française.
CASE STUDY INSTRUCTIONS

The case study will be used as a basis for some examination questions. Be sure to answer the question asked by referring to the case study. For example, when asked for advantages of a particular plan design to a company referenced in the case study, your response should be limited to that company. Other advantages should not be listed, as they are extraneous to the question and will result in no additional credit. Further, if they conflict with the applicable advantages, no credit will be given.
8. (6 points) Public and private pension systems have come under increased pressure due to the following conditions:

- Population aging
- Poor financial market returns
- Low interest rates

(a) (4 points) Explain how each of these conditions impact:

(i) Pay-as-you-go public pension systems

(ii) Funded private pension systems

(b) (2 points) Describe possible policy actions to help improve financial sustainability of public defined benefit pension systems.
9. (8 points) Company XYZ is considering one of the following changes to its defined benefit final average pay plan:

Option 1: Adding an option to receive a lump sum benefit at retirement.

Option 2: Adding a cost of living increase if the plan’s asset returns exceed 9%.

Option 3: Changing the design to a floor-offset plan.

(a) (2 points) Describe the considerations under Actuarial Standard of Practice No. 4 when measuring plan provisions that are difficult to measure.

(b) (3 points) Describe the risks faced by the plan sponsor and plan participants under each option.

(c) (3 points) Recommend a methodology to value Option 2.

Justify your response.
10. (7 points)

(a) (4 points) Describe the risks that impact an employee’s ability to generate adequate retirement income through a defined contribution plan.

(b) (3 points) Describe actions an employer can take to improve post-retirement income adequacy in a defined contribution plan.
11. (11 points) On March 31, 2016, NOC announced that it will be closing a major location on September 30, 2016. As a result of the closure, half of the salaried population will be laid off.

NOC management is interested in the impact of the closure on the National Oil Full-Time Salaried and Union Retiree Health Benefit Program.

You are given the following (below numbers are in $000’s):

- Assume 2016 expected benefit payments remain unchanged.
- Reduction in Accumulated Postretirement Benefit Obligation due to the closure as of the measurement date is 1,000,000.
- Service Cost for the remainder of the year after the measurement date is 25,000.
- The discount rate on the measurement date is 4.25%.
- No other actuarial gains or losses are expected during the year.

(a) (4 points) Describe the accounting treatment of this event under International Accounting Standard 19 and U.S. Accounting Standard ASC 715.

No calculations required.

(b) (4 points) Calculate the revised 2016 Defined Benefit Cost and Other Comprehensive Income (OCI) under IAS 19.

Show all work.

(c) (3 points) Describe the assumption changes NOC should consider as a result of the location closure.
12. (8 points) Company ABC sponsors a registered defined benefit pension plan and is implementing an early retirement incentive program.

(a) (4 points) Describe the steps involved in implementing an early retirement incentive program.

(b) (4 points) Describe the advantages and disadvantages of implementing an early retirement incentive program from the company’s perspective.

**END OF EXAMINATION**
Afternoon Session
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