

ROCHESTER INSTITUTE OF TECHNOLOGY  
DEPARTMENT OF COMPUTER SCIENCE

ADVANCED C++ PROGRAMMING AND DESIGN

FALL 2013

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Score: \_\_\_\_\_ / 30

Name: \_\_\_\_\_ DCE Login: \_\_\_\_\_

## Long Answers Questions

Answer the questions in the spaces provided on the question sheets. If you run out of room for an answer, continue on the back of the page.

1. (10 points) If you had to maintain an unsorted collection of data, and you had to insert and remove elements from the middle of the collection, what container would you chose, and why?

## Short Answer Questions

Write the correct answer in the space provided next to the question. Answers that are not legible or not made in the space provided will result in a 0 for that question.

2. (2 points) What is the answer to life, the universe, and everything?

2. \_\_\_\_\_

3. (2 points) In what year did Apollo 11 go to the moon?

3. \_\_\_\_\_

4. (2 points) How long does it take for light to travel from the Sun to the Earth?

4. \_\_\_\_\_

5. (2 points) What... is the air-speed velocity of an unladen swallow?

5. \_\_\_\_\_

6. (2 points) How old do you have to be to drink (legally) in the US? In Canada?

6. \_\_\_\_\_

6. \_\_\_\_\_

## True/False Questions

Write 'True' or 'False' *clearly* in the space provided next to the question. Answer that are not legible or not made in the space provided will result in a 0 for that question.

7. (1 point) The sun appears bigger in the sky because it is closer than the moon.

7. \_\_\_\_\_

8. (1 point) Dogs are better than cats in every way.

8. \_\_\_\_\_

## Multiple Choice Questions

Write the *best* answer in the space provided next to the question. Answer that are not legible or not made in the space provided will result in a 0 for that question.

9. (2 points) What class would you use to write data to a file?

- A. ostream
- B. ifstream
- C. ofstream
- D. ffstream
- E. istream

9. \_\_\_\_\_

10. (2 points) When is it ok to use friends functions in a class definition?

- A. wrong
- B. not right
- C. other
- D. still wrong
- E. Never

10. \_\_\_\_\_

11. (2 points) When is it ok to use enemy functions in a class definition?

- A. when you feel like it
- B. on occasion
- C. sometimes
- D. always
- E. when the moon is full

11. \_\_\_\_\_

12. (2 points) What class would you use to write data from stderr?

- A. istream
- B. ffstream
- C. ofstream
- D. ostream
- E. ifstream

12. \_\_\_\_\_

## Bonus Questions

13. (2 bonus points) A library gained fame by moving which celebrity's book from non-fiction to fiction in 2012?

- A. Beyonce
- B. Mitt Romney
- C. Lance Armstrong
- D. Rupert Murdoch
- E. Crocodile Dundee

13. \_\_\_\_\_

14. (2 bonus points) The city of Tumbuktu is in what country?

- A. Mauitania
- B. France
- C. There is no such city
- D. Mali
- E. Morocco

14. \_\_\_\_\_

15. (2 bonus points) What is the answer to life, the universe and everything?

15. \_\_\_\_\_