Appendix A

Test Questions

1. Field of computer science concerned with constructing mathematical models and quantitative analysis techniques and using computers to analyze and solve scientific problems is
   a. Formal methods
   b. Concurrent, parallel and distributed system
   c. Computer architecture
   d. Computational science
   e. Computer security

   Answer: _

2. Computational complexity classified as
   a. Abstract field of computer science
   b. Practical field of computer science

   Answer: _

3. Who is inventing the first mechanical computer
   a. Wilhelm Schickard
   b. Pascaline
   c. Gotfried Wilhelm Leibniz
   d. Charles Babbage
   e. Ada Lovelace

   Answer: _

4. The term computer refer to machine than their human predecessor is timeframe in
   a. Early development of computer
   b. Era 1940
   c. Late fifties
   d. Modern times
   e. a and b

   Answer: _

5. The world first computer science program began at
   a. Harvard University
   b. Massachusetts Institute of Technology
   c. University of Cambridge
   d. University of Massachusetts
   e. York University

   Answer: _

6. IBM 704 and 709 in period
    a. Early development of computer
    b. Era 1940
    c. Late fifties
    d. Modern times
    e. a and b

    Answer: _

7. German machine communication during world war II called _____
8. Digital revolution refer to
    a. Information age and Information revolution
    b. Revolution after industrial revolution
    c. Revolution after information age
    d. Information age and internet
    e. Computer era

    Answer: _

9. Protein folding can be solve by
    a. Cryptography
    b. Distributed computing
    c. Computer graphics
    d. Simulation
    e. CGI

    Answer: _

10. CGI is term in
    a. Cryptography
    b. Distributed computing
    c. Computer graphics
    d. Simulation
    e. Algorithmic trading

    Answer: _

11. Please list three examples in simulation field in computer science achievement
    1. _____
    2. _____
    3. _____
12. The following are proposed term during creation of computer science term, <u>except</u>
    a. Datalogy
    b. Turologist
    c. Applied epidemic

d. Comptologist
e. Hypologist

Answer: _

13. A folkloric quotion states that “computer science is no more about computers than astronomy is about telescopes” was stated by
    a. Charles Babbage
    b. Edsger Dijkstra
    c. Kurt Godel
    d. Alan Turing
    e. David Parnas

    Answer: _

14. Mathematic and computer science is highly related and there are interchange of ideas between two subject except
    a. Mathematic logic
    b. Category theory
    c. Control theory
    d. Domain theory
    e. Algebra

    Answer: _

15. IEEE Computer Society identifies four areas that it considers crucial to the discipline of computer science, except
    a. Theory of computation
    b. Algorithms and data structures
    c. Programming methodology and languages
    d. Operating system
    e. Computer elements and architecture

    Answer: _

16. According to Peter J. Denning, the fundamental question underlying computer science is
    a. How to construct efficient computing process
    b. What can be efficiently automated
    c. Where part of computing process can be automated
    d. When the automatic computing process needed
    e. a and c

    Answer: _

17. Information theory related to
    a. Qualification of data

b. Qualification of data
c. Quantification of information
d. Quantification of information
e. All above

Answer: _

18. Formal methods are best described as the application of the following, except
    a. Logic
    b. Automata theory
    c. Program semantics
    d. Computer graphics
    e. Type systems

    Answer: _

19. What is the difference between computer science course in university and in colleges/secondary school?

    _____

20. What field technocratic paradigm most prominent?
    a. Computer graphics
    b. Logic
    c. Automata theory
    d. Type systems
    e. Software engineering

    Answer: _