**The City School**

North Nazimabad Boys Branch

Grade 11

Date: 26-02-2016

Subject: Computer

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Q1 a: State three features of a typical operating system.

1 ......................................................................................................................................................

 .........................................................................................................................................................

2 ......................................................................................................................................................

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3 ......................................................................................................................................................

 .....................................................................................................................................................[3]

(b) Describe two health risks associated with increased use of computers.

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2 ................................................................................................................................................

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 ...............................................................................................................................................[2]

Q2: The following five statements about Internet security are incomplete:

 (i) Illegal access to a computer system is known as < - - - - (a) - - - - >.

 (ii) < - - - - (b) - - - - > are programs that self-replicate (copy themselves) and are designed to disrupt computer systems.

 (iii) < - - - - (c) - - - -> is where a user is sent legitimate-looking emails; as soon as the email is opened and the recipient clicks on the embedded link, they are sent to a fake website.

 (iv) S oftware that monitors key presses on a user’s keyboard, and relays the information back to the person who sent the software, is known as < - - - - (d) - - - - >.

 (v) < - - - - (e) - - - - > is malicious code or software installed on the hard drive of a user’s computer or on a web server; the code or software will re-direct the user to a fake website without their knowledge.

 Complete the five statements using words from the following list:

 • cookies • hacking • pharming • phishing • spam • spyware • viruses • web browsers

(a) .................................................................................................................................................[1]

(b) .................................................................................................................................................[1]

(c) .................................................................................................................................................[1]

(d) .................................................................................................................................................[1]

(e) .................................................................................................................................................[1]

Q3: Six statements and six values are shown below.

 Each statement will generate one possible value.

 Draw a line to link each statement to its correct value.



Q4: The following section of a pseudocode algorithm should:

 • input 500 numbers

 • generate a ratio called k

 • output each value of k

 • output how many numbers were larger than 10

 10 total = 1

20 FOR x = 1 TO 500

30 IF number < 10 THEN total = total + 1

 40 k = x / number

50 x = x + 1

60 OUTPUT k

70 NEXT x

80 OUTPUT x

 (a) There are five errors in the above code.

 Locate these errors and suggest a correction.

error 1 .......................................................................................................................................

correction ..................................................................................................................................

 ...................................................................................................................................................

error 2 .......................................................................................................................................

correction ..................................................................................................................................

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error 3 .......................................................................................................................................

correction ..................................................................................................................................

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error 4 .......................................................................................................................................

correction ..................................................................................................................................

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error 5 .......................................................................................................................................

correction ..................................................................................................................................

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(b) The corrected algorithm was converted to a computer program and run. However, after several numbers were input, the program stopped and an error message was generated, showing that there was a further error at line 40 (k = x / number).

 State what could cause this error to occur.

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 Suggest a change to line 40 to overcome this problem.

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