SGG 3643 (Computer Programming III)

Final Examination (20%)

17-March-2010

Answer **ALL** questions.

Question 1:

(a) After having sent a WWW request for the document with the URL http://www.ibm.com/education/ you get a response from the server http://www-3.ibm.com/software/info/education/. What has happened?

[3 marks]

- (b) In HTML forms an image can act as an input field. Give a source code example. What are the specific properties of this form element? [3 marks]
- (c) In XML, why and when we need to use DTD or XSL?

[4 marks]

Question 2:

(a) As part of an HTML page you discover the following code:

```
<script type="text/javascript">
function checkOption)
{
  for (i=0; i < document.form.checkgroup.length; i++) {
    if (document.form.checkgroup[i].checked==true)
        alert("Checkbox at index "+i+" is checked!")
    else
        document.form.checkgroup.focus();
        return false;
    }
}
</pre>
```

Explain this code fragment. What is its purpose? What is the meaning of document.form.checkgroup.length and document.form.checkgroup.focus()? [5 marks]



- (b) In GML, the term EPSG is used to associate a specific GIS layer with a projection system. Why it is implemented such way? [2 marks]
- (c) X3D will enable visualization of 3D geospatial data via Internet. Give an example of X3D code that visualizes a simple building in LOD1 which located in Johor (RSO).

 [3 marks]

GOOD LUCK.

