

NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY
FACULTY OF APPLIED SCIENCE
COMPUTER SCIENCE DEPARTMENT
MAY EXAMINATIONS 2005

SUBJECT: INTERNET AND WEB DESIGNING
CODE: SCS2204

INSTRUCTION TO CANDIDATES

Answer any five questions. Paper contains Six questions.

Time: 3 hours

QUESTION ONE

- a) What do the following terms mean with regards to mail servers?
- i. Reverse path [2]
 - ii. Forward path [2]
 - iii. Verifying and expanding [2]
- b) The actual process of sending a mail message comprises three parts. Describe these parts [6]
- c) DHCP uses a four phase process to configure a DHCP client. State and describe these phases. [8]

QUESTION TWO

- a) What are RFCs? [2]
- b) After reviews RFCs are assigned a classification. State and describe these classifications [10]
- c) Describe the 3 maturity levels of internet standards [6]
- d) What is the IAB Official Protocol Standard? [2]

QUESTION THREE

- a) When more bits are used for the subnet mask, more subnets are available, but fewer hosts are available per subnet. In a class B network, how many subnets and hosts per subnet would be available if
- i. 3 bits are used for the subnet mask? [2]
 - ii. 8 bits are used for the subnet mask? [2]

- b) During resolution, what occurs first, IP address resolution or host name resolution? Why is this order necessary? [2]
- c) Explain the following terms with regards to DNS [2]
- i. resolver [2]
 - ii. root level domain [2]
 - iii. top level domain [2]
 - iv. fully qualified domain name [2]
 - v. zone of authority [2]
 - vi. zone transfer [2]
 - vii. master name server [2]

QUESTION FOUR

- a) Once you've finished creating a new Web site what should be done to prepare it for publication [10]
- b) Explain what the following code does [10]

```
<html>
<head>
  <title>JavaScript</title>
<script language="JavaScript">
<!--
var browser = navigator.appName ;
if (browser == "Microsoft Internet Explorer")
  {
  document.write("<body bgcolor = '#b0ffff'" );
  }
else
  {
  document.write("<body bgcolor = '#ffcab0'" );
  }
// -->
```

```
</script>
</head>
<div align="center">
<br /><br />
WELCOME
<a href="http://www.birthdayusa.com "
  onMouseOver = "party.src = 'firecracker.gif' ; return true"
  onMouseOut = "party.src = 'balloons.gif' ; return true">
<img src = "balloons.gif" name = "party" border="0" /></a>
</div>
</body>
</html>
```

QUESTION FIVE

- a) Explain the following terms
 - i. Cookie [2]
 - ii. Media streaming [2]
 - iii. Applet [2]
- b) Describe 4 ways to add sound to your web page [8]
- c) Describe the following types of video files
 - i. AVI (Audio Visual Interleave) [2]
 - ii. MPEG (Motion Picture Experts Group) [2]
 - iii. Quick Time [2]

QUESTION SIX

- a) Explain the following terms in relation to XML
- i. Meta language [2]
 - ii. Document Type Definition [2]
 - iii. Well formed document [2]
 - iv. Child elements [2]
 - v. Processing instructions [2]
 - vi. Cdata section [2]
 - vii. Valid document [2]
 - viii. Parser [2]
- b) What are the following attributes of the form tag used for?
- i. Action [2]
 - ii. Method [2]

END OF QUESTION PAPER

GOOD LUCK!