



UNIVERSITY OF COLOMBO, SRI LANKA

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)

*Academic Year 2012/2013 – 1<sup>st</sup> Year Examination – Semester 1*

***IT1404: Internet and World Wide Web***  
***Multiple Choice Question Paper***

**24<sup>th</sup> March, 2013**  
**(TWO HOURS)**

**Important Instructions :**

- The duration of the paper is **2 (two) hours**.
- The medium of instruction and questions is English.
- The paper has **50 questions** and **10 pages**.
- All questions are of the MCQ (Multiple Choice Questions) type.
- All questions should be answered.
- Each question will have 5 (five) choices with **one or more** correct answers.
- All questions will carry equal marks.
- There will be a penalty for incorrect responses to discourage guessing.
- The mark given for a question will vary from 0 (*All the incorrect choices are marked & no correct choices marked*) to +1 (*All the correct choices are marked & no incorrect choices are marked*).
- Answers should be marked on the special answer sheet provided.
- Note that questions appear on both sides of the paper.  
If a page is not printed, please inform the supervisor immediately.
- Mark the correct choices on the question paper first and then transfer them to the given answer sheet which will be machine marked. **Please completely read and follow the instructions given on the other side of the answer sheet before you shade your correct choices.**

1. Internet

- (a) provides the infrastructure to support email.
- (b) uses TCP/IP protocol suite.
- (c) is also famously known as the World Wide Web.
- (d) is the largest computer network in the world.
- (e) always provides a secure and reliable way for financial transactions.

2. Consider the following incomplete paragraph.

\_\_\_\_\_ (i) \_\_\_\_\_, was dissolved in 1990 and many of the sites connected to it were absorbed by the \_\_\_\_\_ (ii) \_\_\_\_\_. The NSFNET Backbone Service was mainly used by academic and educational entities, and was a transitional network bridging the era of the \_\_\_\_\_ (iii) \_\_\_\_\_ and \_\_\_\_\_ (iv) \_\_\_\_\_ into the modern Internet of today.

Fill in each blank with the correct word.

- (a) (i) ARPANET (ii) NSFNET (iii) ARPANET (iv) CSNET
- (b) (i) ARPANET (ii) NSFNET (iii) CSNET (iv) ARPANET
- (c) (i) NSFNET (ii) ARPANET (iii) ARPANET (iv) CSNET
- (d) (i) NSFNET (ii) ARPANET (iii) CSNET (iv) ARPANET
- (e) (i) CSNET (ii) ARPANET (iii) ARPANET (iv) CSNET

3. Which of the following IP address(es) is/are valid in IPV4 format?

- (a) 10.50.25.51
- (b) 192.210.25
- (c) 192. 210.16.90
- (d) 05.248.16.257
- (e) 10.200.260.90

4. The first browser ever written was named as the

- (a) NCSA Mosaic.
- (b) Netscape.
- (c) Opera.
- (d) CERNhttpd.
- (e) WorldWideWeb.

5. One can get an Internet connection through various methods such as leased circuits, dial-up access, DSL or wireless. These methods differ from each other in

- (a) availability.
- (b) accessibility .
- (c) affordability .
- (d) browser supportability.
- (e) use of existing resources.

6. Consider the following incomplete sentence.

Domain Name System makes it possible to attach (i) \_\_\_\_\_ to (ii) \_\_\_\_\_.

Fill in each blank with the correct word.

- (a) (i) computer names (ii) domain names
- (b) (i) IP addresses (ii) domain names
- (c) (i) network names (ii) domain names
- (d) (i) domain names (ii) IP addresses
- (e) (i) computer names (ii) IP addresses

7. Identify the web servers from among the following.

- |                  |            |                |
|------------------|------------|----------------|
| (i) Apache       | (ii) Lycos | (iii) Eudora   |
| (iv) Gopher      | (v) Safari | (vi) AltaVista |
| (vii) CERN Httpd | (viii) IIS |                |

- |                               |                                   |
|-------------------------------|-----------------------------------|
| (a) (i),(ii) and (vii) only.  | (b) (i), (vii) and (viii) only    |
| (c) (i), (iv) and (vii) only. | (d) (i), (ii), (iv) and (vi) only |
| (e) All                       |                                   |

8. NCSA Mosaic

- |   |
|---|
| (a) is developed by Apple Inc.                      |
| (b) is a Web 2.0 search engine.                     |
| (c) has a graphical user interface.                 |
| (d) was the first platform independent web browser. |
| (e) was the first text based browser.               |

9. Select the correct interpretation(s) of the URL given below.

<https://vle.bit.lk/faq.html>

- |  |
|--|
| (a) The protocol: Hypertext Transfer Protocol        |
| (b) The protocol: Hypertext Transfer Protocol Secure |
| (c) The name of the server: vle.bit.lk               |
| (d) The name of the document: faq.html               |
| (e) The name of the document: index.html             |

10. Consider the following statements.

- (i) A spider is a program that visits web sites and reads their pages and other information in order to create entries for a search engine index.
- (ii) A cookie is usually, information sent from a web site and stored in users' web browser while a user is browsing a web site.
- (iii) Almost all web browsers cache recently obtained data, usually on the local hard drive.

Which of the above statements is/are true?

- |                        |                          |                         |
|------------------------|--------------------------|-------------------------|
| (a) (iii) only.        | (b) (ii) and (iii) only. | (c) (i) and (iii) only. |
| (d) (i) and (ii) only. | (e) All.                 |                         |

11. Select correct statement(s).

- |  |
|--|
| (a) Search engine optimization (SEO) is the practice of manipulating aspects of a Web site to improve its ranking in search engines. |
| (b) Exite and Bing are meta search engines.  |
| (c) Most of the search engines employ web crawlers to build their web page list.   |
| (d) The searching technique and the presentation of results depend on the search engine.   |
| (e) Web directories are websites that keep links to web sites under categories.  |

12. DHTML is not a single technology. It uses several technologies including

- |                 |                   |              |
|-----------------|-------------------|--------------|
| (a) HTML.       | (b) CSS.          | (c) ActiveX. |
| (d) Javascript. | (e) Actionscript. |              |

13. Consider the following statements in relation to the history of World Wide Web.

- i. In 1990, Tim Berners-Lee and a team at the CERN developed WWW.
- ii. It is based on an idea by a graduate student of Harvard University.
- iii. In 1968, Ted Nelson developed the first ever working hypertext system called NLS.
- iv. In 1990, the world's first web site info.cern.ch was published.

Which of the above statements is(are) true ?

- |                              |                             |
|------------------------------|-----------------------------|
| (a) (ii) only                | (b) (ii) and (iii) only     |
| (c) (i), (ii) and (iii) only | (d) (i), (ii) and (iv) only |
| (e) All                      |                             |

14. Select the correct statement(s) regarding PHP.

- |   |
|---|
| (a) A PHP code can be embedded in an HTML document. |
| (b) PHP runs on the web server.                     |
| (c) PHP uses Java-like syntax.                      |
| (d) PHP is an open-source programming language.     |
| (e) PHP generates dynamic HTML pages.               |

15. Select **INCORRECT** statement(s) related to composing email.

- |  |
|--|
| (a) Each individual on the To line is responsible for taking the action outlined on the Subject line and the message relates directly to them.           |
| (b) Individuals whose work is indirectly affected by the message are included on the Cc line.  |
| (c) BCC provides a way for you to send messages to several people without disclosing their email addresses to each other.                                |
| (d) Using BCC line in sending mass mail promotes SPAM.   |
| (e) The subject line should effectively summarize the message so that each recipient will have a clear understanding about the objective of the message. |

16. Select the set(s) of HTML tags which only deal(s) with tables.

- |                           |                        |
|---------------------------|------------------------|
| (a) <table><thead><tbody> | (b) <table><td><tr>    |
| (c) <table><td><tr>       | (d) <thead><tbody><td> |
| (e) <tr><td><tbody>       |                        |

17. Select HTML tag(s) that correctly represent(s) document body elements.

- |             |            |             |
|-------------|------------|-------------|
| (a) <meta>  | (b) <img>  | (c) <style> |
| (d) <title> | (e) <form> |             |

18. Consider the following HTML code.

```
<a href="http:// vle.bit.lk/ " title=" Home page of the BIT Virtual Learning Environment" target="_parent"> Welcome to BIT VLE! </a>
```

The above code can be used to

- |   |
|---|
| (a) open the linked document in a new window or tab.                      |
| (b) create an image in the home page of the BIT VLE.                      |
| (c) open the linked document in the same frame as it was clicked.         |
| (d) specify the destination of a link as a tooltip text.                  |
| (e) provide extended information about the link itself as a tooltip text. |

19. Fill in the blank.

\_\_\_\_\_ was a WYSIWYG HTML editor and was replaced by Expression Web and SharePoint Designer in 2006.

- |                         |              |
|-------------------------|--------------|
| (a) RapidWeaver         | (b) Bluefish |
| (c) Dreamweaver         | (d) KompoZer |
| (e) Microsoft FrontPage |              |

20. What is/are the correct HTML code(s) for inserting an image?

- |  |
|--|
| (a) <img href="flower.jpg" />                |
| (b)                  |
| (c) <image src="flower.png" />               |
| (d)      |
| (e) <image src="flower.gif" alt="Orchids" /> |

21. Hyper Text Mark up Language(HTM)

- |  |
|--|
| (a) ignores the case of tags in the document.                |
| (b) alters the case of text between the tags <H2> and </H2>. |
| (c) ignores extra white spaces in the document.              |
| (d) alters the case of text between the tags <P> and </P>.   |
| (e) ignores tabs in the document.                            |

22. What is(are) the correct statement(s) related to web browsing?

- |   |
|---|
| (a) Web browsers do not need to understand HTML.                      |
| (b) Browsers provide a way to view the HTML source of a web page.     |
| (c) Browsers do not support searching within a web page.              |
| (d) Chrome, Mozilla Firefox and IE 7 are examples of tabbed browsers. |
| (e) Most popular web browsers offer ways to browse anonymously.       |

23. An HTML document contains the following line.

<H2>Welcome to BIT VLE!</H2>

It instructs the browser to display "Welcome to BIT VLE!"

- |   |                  |
|---|------------------|
| (a) in 2pt font.                                  | (b) in 20pt font |
| (c) as a level 2 header.                          | (d) Twice.       |
| (e) in a font twice larger than the default font. |                  |

24. Select the incompatible set(s) of words from the following

- |                                     |                                       |
|-------------------------------------|---------------------------------------|
| (a) Google, Firefox, Safari         | (b) Search, allplus, Mamma            |
| (c) Opera, Eudora, Hotbot           | (d) Opera, Firefox, Internet Explorer |
| (e) MSN Search, Bing, Yahoo! Search |                                       |

25. Fill in the blanks with the correct words.

\_\_\_\_\_(i)\_\_\_\_\_ is a TCP/IP protocol used in sending and receiving e-mail. However, user-level client mail applications typically use this protocol only for sending messages to a mail server for relaying. For receiving messages, client applications usually use the \_\_\_\_\_(ii)\_\_\_\_\_. First developed at Stanford University in 1986, \_\_\_\_\_(iii)\_\_\_\_\_ is a more modern protocol than POP.

- |                                   |
|-----------------------------------|
| (a) (i) SMTP (ii) POP (iii) IMAP  |
| (b) (i) SMTP (ii) IMAP (iii) IMAP |
| (c) (i) IMAP (ii) POP (iii) SMTP  |
| (d) (i) POP (ii) SMTP (iii) IMAP  |
| (e) (i) SMTP (ii) FTP (iii) IMAP  |

26. Select correct statement(s).

- |   |
|---|
| (a) Internet service providers can install mail filters in their mail transfer agents as a service to all of their customers. |
| (b) IMAP handles incoming e-mail messages by generally downloading them from the mail server to a local computer.             |
| (c) POP is an ASCII protocol.   |
| (d) POP protocol uses port 110 as the standard port.  |
| (e) Most email programs are with an automatic spam filtering function.  |

27. Select the valid email address format(s).

- |                            |                         |
|----------------------------|-------------------------|
| (a) Abc123.example.com     | (b) Abc.123@example.com |
| (c) Abc.1.2.3.@example.com | (d) Abc123@example.com  |
| (e) Abc@123@example.com    |                         |

28. Select the correct statement(s) about participating in mailing lists.

- (i) Address the messages to the list addresses to send a message to all subscribers of a mailing list.
- (ii) List address is the name of the list moderator.
- (iii) Send a message to the administrative address to subscribe to a mailing list.

- |                        |                       |                         |
|------------------------|-----------------------|-------------------------|
| (a) (i) only           | (b) (i) and (ii) only | (c) (ii) and (iii) only |
| (d) (i) and (iii) only | (e) All               |                         |

29. Consider the following statements in relation to the features available in blogs.

- i. Blog posts are organized in reverse-chronological order.
- ii. An archive of older articles is available.
- iii. Most blogs allow visitors to leave comments.

Which of the following is/are true in relation to the above statements?

- |                         |                       |                        |
|-------------------------|-----------------------|------------------------|
| (a) (i) only            | (b) (i) and (ii) only | (c) (i) and (iii) only |
| (d) (ii) and (iii) only | (e) All               |                        |

**Questions 30 and 31 are based on the following.**

The following shows the sequence of actions with one action missing in downloading a file from a FTP server to a computer by using the command line interface.

- (i.) Invoke the FTP client software.
- (ii.) .....
- (iii.) Indicate the data exchange mode.
- (iv.) Download the files required.
- (v.) Exit from the FTP client software.

30. What is the action (ii)?

- |  |
|--|
| (a) Indicate the files to download.            |
| (b) List all available files.                  |
| (c) Close all opened files.                    |
| (d) Establish a connection with the FTP server |
| (e) Close all opened files.                    |

31. Appropriate FTP command(s) for the action (iii) is

- |                 |                       |          |
|-----------------|-----------------------|----------|
| (a) ftp.        | (b) bin.              | (c) bye. |
| (d) get README. | (e) open ftp.gnu.org. |          |

32. Select the correct encoding method(s) that can be used to encode email attachments.

- |  |
|--|
| (a) Multipurpose Internet Mail Extensions      |
| (b) BinHex                                     |
| (c) Uuencoding                                 |
| (d) Mailinglist Internet Management Extensions |
| (e) Internet Message Access Protocol           |

33. The main objective(s) for the development of the FTP is/are to

- |  |
|--|
| (a) promote sharing of files over a network.   |
| (b) shield a user from different file storage schemes used in different operating systems. |
| (c) enable indirect or implicit access of remote computers.                                |
| (d) transfer data between two computers in a reliable and efficient way.                   |
| (e) provide a secure file transfer functionality over any reliable data stream.            |

34. Select the correct statement(s) about Skype.

- |  |
|--|
| (a) Skype can be used to communicate with peers by video using a webcam. |
| (b) Calls to other Skype users' mobile phones are free of charge.        |
| (c) Skype network is operated by Microsoft.                              |
| (d) Skype network is operated by Google.                                 |
| (e) Skype can be used to send and receive files of any size or type.     |

35. Identify widely used CMS(s) underlying many well known websites from among the following.

- |               |            |            |
|---------------|------------|------------|
| (a) Drupal    | (b) Opera  | (c) Joomla |
| (d) WordPress | (e) Safari |            |

36. Select the correct statement(s) about Podcasting.

- |  |
|--|
| (a) Podcasts provide a quick and easy way to distribute audio files.             |
| (b) Users can subscribe to a web feed to get podcasts that interest them.        |
| (c) Podcasts are used to provide live broadcasts of TV shows or sports events.   |
| (d) To download a podcast a software program called a podcatcher is used.        |
| (e) The benefit of podcasts is that users can listen to them whenever they want. |

37. Consider the following list of services.

- i. Transactional Services
- ii. Interactive Services
- iii. Informational Services
- iv. Integrated Services

Select the correct order of maturity of the e-Government ICT infrastructure when classified by the nature of the services provided.

- |                            |                            |
|----------------------------|----------------------------|
| (a) (i), (ii), (iii), (iv) | (b) (ii), (i), (iii), (iv) |
| (c) (i), (ii), (iv), (iii) | (d) (iii), (ii), (i), (iv) |
| (e) (i), (iv), (ii), (iii) |                            |

38. Match column A with B.

A	B
A. FaceBook	i. Professional networking
B. Skype	ii. Communication with peers
C. MySpace	iii. SMS of the Internet
D. LinkedIn	iv. Social entertainment
E. Twitter	v. Social networking

- |                                     |
|-------------------------------------|
| (a) A - iii, B - v, C-i, D-ii, E-iv |
| (b) A - v, B - iii, C-i, D-ii, E-iv |
| (c) A -v , B - iii, C-i, D-iv, E-ii |
| (d) A -v, B - ii, C-iv, D-i, E-iii  |
| (e) A - iv, B - ii, C-i, D-iii, E-v |

39. Consider the following statements in relation to remotely accessing different computers.

- i. Windows Remote desktop connection can be used to access computers running on any version of windows.
- ii. Windows Remote desktop connection can be used to access Linux computers.
- iii. VNC can be used to access computers running on Linux or any version of Windows.

Which of the above statements is(are) true?

- |                         |                       |                        |
|-------------------------|-----------------------|------------------------|
| (a) (iii) only          | (b) (i) and (ii) only | (c) (i) and (iii) only |
| (d) (ii) and (iii) only | (e) All               |                        |

40. In e-Learning, learning objects are a new way of thinking about learning content. Learning objects are

- |   |
|---|
| (a) self-contained with all the necessary assets. |
| (b) reusable in multiple contexts.                |
| (c) tagged with metadata for identification.      |
| (d) dependent on other learning objects.          |
| (e) very large units of learning.                 |



41. Which of the following is an /are open source project(s)?

(a) Mozilla Firefox	(b) Linux	(c) Apache
(d) Openoffice	(e) Internet Explorer	

42. Match column A with column B.

A	B
A. Podcasting	i. Real-time communication between two or more people based on typed text
B. IPTV	ii. Transmission of audio and/or video over the Internet using streaming technology.
C. VoIP	iii. Transmission technologies for delivery of voice communications over IP
D. Instant Messaging	iv. Method of distributing multimedia files over the Internet.
E. Webcasting	v. Digital television service is delivered using Internet Protocol over a network

(a) A. -iii, B-v, C-i, D-ii, E-iv	(b) A. -v, B-iii, C-i, D-ii, E-iv
(c) A. -iv, B-v, C-iii, D-i, E-ii	(d) A. -v, B-i, C-iii, D-ii, E-iv
(e) A. -ii, B-iii, C-i, D-v, E-iv	

43. Which of the following is an /are e-Commerce payment service provider(s)?

(a) Paypal	(b) Moneybooker
(c) Ebay	(d) Google checkout
(e) Verisign	

44. Consider the following incomplete paragraph.

Personal collaboration platforms have evolved based on the basic protocols and services of the Internet. These include phenomena such as, journaling through ...(i)....., collaborative online work using...(ii)....., content creation and editing via .....(iii)....., tracking web based content updates through ...(iv).....

Fill in each blank with the correct word

(a) (i) blogs (ii) CMS (iii) wikis (iv) RSS
(b) (i) wikis (ii) blogs (iii) CMS (iv) RSS
(c) (i) RSS (ii) CMS (iii) blogs (iv) wikis
(d) (i) blogs (ii) wikis (iii) CMS (iv) RSS
(e) (i) blogs (ii) RSS (iii) wikis (iv) CMS

45. From among the following, identify the eCommerce activities.

- (i) Selling goods and services
- (ii) Ordering materials and supplies
- (iii) Identifying new and loyal customers
- (iv) Government Information System (www.gic.gov.lk)
- (v) Managing the manufacturing process
- (vi) Quality control and testing
- (vii) Paying utility bills
- (viii) eParliament

(a) (i), (ii), (iv) and (v)	(b) (ii), (iii), (iv) and (v)
(c) (i), (iii), (v) and (vi)	(d) (i), (ii), (iii), (vii) and (viii)
(e) All	

46. Select the correct statement(s) related to e-Commerce.

- (a) Using purely as a channel for advertising is one of the revenue models on the web.
- (b) Internet allows the buyers to reduce the transaction cost in an eCommerce business by automatic search for the best prices on the web.
- (c) Many scholarly works use advertising rather than subscription to fund their operations.
- (d) Provision of Frequently Asked Questions (FAQs) is a way of reducing the operational cost in eCommerce business.
- (e) eBay is a good example for direct fee model.

47. Select the correct statement(s).

- (a) Secure Shell is typically used to login to a remote machine and execute commands.
- (b) SSL supports both server and client authentication.
- (c) S-HTTP is designed to transmit individual messages securely.
- (d) When some one is accessing an SSL enabled website using a HTTP browser, the URL changes to https.
- (e) S/MIME protocol enables secure credit card transactions over the Internet.

48. Consider the following statements.

- i. Spam is a message sent, warning the recipient of a non-existent computer virus threat.
- ii. Phishers attempt to steal sensitive financial or personal information through fraudulent email or instant messages.
- iii. Spyware is any program that monitors your online activities or installs programs without your consent for profit or to capture personal information.

Which of the above statements is/are true?

- |                          |                 |                         |
|--------------------------|-----------------|-------------------------|
| (a) (ii) only.           | (b) (iii) only. | (c) (i) and (iii) only. |
| (d) (ii) and (iii) only. | (e) All.        |                         |

49. Select the correct statement(s) with regard to Computer worms/Trojan horse.

- (a) A worm is designed to spread from computer to computer.
- (b) The malicious functionality of a Trojan horse may include data destruction.
- (c) A worm spreads by exploiting vulnerabilities in operating systems.
- (d) A Trojan horse neither replicates nor copies itself.
- (e) Worms always cause at least some harm to the network.

50. Which of the following statement(s) is(are) correct in relation to crimes on the Internet?

- (a) Access to data/information knowing that one has no authority to access such information is a crime.
- (b) Introducing a computer program which will have the effect of malfunctioning of a computer is not a crime
- (c) Different countries and economies have different laws for pornography and gambling.
- (d) Denial of service attacks can be considered as crimes on the Internet.
- (e) Domain name squatting cannot be considered as a crime on the Internet..

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