



**UNIVERSITY OF COLOMBO, SRI LANKA**

UNIVERSITY OF COLOMBO SCHOOL OF COMPUTING

**DEGREE OF BACHELOR OF INFORMATION TECHNOLOGY (EXTERNAL)**

***Academic Year 2011/2012 – 1<sup>st</sup> Year Examination – Semester 1***

***IT1404: Internet and World Wide Web***

***Multiple Choice Question Paper***

**11<sup>th</sup> March, 2012**

**(TWO HOURS)**

**Important Instructions :**

- The duration of the paper is 2 (Two) hours.
- The medium of instructions and questions is English.
- The paper has 50 questions and 11 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 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. The Internet

- (a) uses only TCP standards in data transmission.
- (b) carries an enormous range of information resources and services.
- (c) is also famously known as the World Wide Web.
- (d) has a centralized governance in creating access policies.
- (e) always contains accurate, consistent information for educational purposes.

2. Which of the following IP addresses is/are valid in IPV4 format?

- |                    |                    |                |
|--------------------|--------------------|----------------|
| (a) 192.240.25.51  | (b) 192.210.16.90  | (c) 192.210.25 |
| (d) 192.248.16.257 | (e) 192.200.260.90 |                |

3. Communication infrastructure has been dominated by a series of advances. Select the correct order of the following events according to the time they happened.

- (i) Telegraph
- (ii) Postal system
- (iii) Early messengers
- (iv) Internet infrastructure
- (v) Telephone system

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

4. ARPANET

- (a) was a Wide Area Network (WAN).
- (b) was also called a backbone network.
- (c) allowed smaller local networks to connect to it.
- (d) was the world's first operational packet switching network.
- (e) was funded by the Advanced Resources Protection Agency.

5. Consider the following incomplete paragraph.

A ..... provides a dedicated 24 hour Internet access to a customer, whereby the provider agrees to deliver a dedicated telecommunications line connecting two or more locations in exchange for a monthly rent. The main disadvantage is the high cost.

Select appropriate word(s) from among the following, to fill in the blank in the above paragraph.

- |   |
|---|
| (a) Asymmetric Digital Subscriber Line (ADSL) |
| (b) Symmetric Digital Subscriber Line (SDSL)  |
| (c) Leased circuit                            |
| (d) Dial-Up access                            |
| (e) WiMAX                                     |

6. Consider the following incomplete paragraph.

If a router becomes overrun with datagrams, it must discard them. Due to this reason some datagrams might be lost during transmission. It is the ..... that handles this problem of data loss by automatically checking for the lost datagrams.

Select appropriate word(s) from among the following, to fill in the blank in the above paragraph.

- |                                   |                                 |
|-----------------------------------|---------------------------------|
| (a) Internet Protocol             | (b) File Transfer Protocol      |
| (c) Transmission Control Protocol | (d) Hypertext Transfer Protocol |
| (e) Post Office Protocol          |                                 |

7. Select the correct statement(s) related to domain names.

- |  |
|--|
| (a) Domain names are used instead of IP addresses.                   |
| (b) Domain names consist of several parts separated by periods.      |
| (c) Every domain name does not end in a top level domain (TLD) name. |
| (d) The sub-domain of bit.ucsc.cmb.ac.lk is cmb only.                |
| (e) The sub-domain of bit.ucsc.cmb.ac.lk is ucsc.cmb.ac.             |

8. Select the **incorrect** statement(s) about the history of the World Wide Web.

- |  |
|--|
| (a) Hypertext is a term coined by Tim Berners-Lee.   |
| (b) Dr. Douglas C. Engelbart developed the first ever working hypertext system called NLS.                                 |
| (c) Tim Berners-Lee and a team at the CERN developed a hypertext based document retrieval system for the Internet.         |
| (d) The first North American web site was started at the Stanford Linear Accelerator Center (SLAC) by Paul Kunz.           |
| (e) The world's first web site and the North America's first web site were both started at psychology research institutes. |

9. The first browser ever written was

- |  |
|--|
| (a) named as the WorldWideWeb.                     |
| (b) named as Netscape.                             |
| (c) created by Tim Berners-Lee.                    |
| (d) very popular and widely used than NCSA Mosaic. |
| (e) only available for NeXT platform.              |

10. Which of the following statements is/are correct in relation to Internet Explorer?

- |   |
|---|
| (a) The first version of this browser was released in 1995.             |
| (b) The latest stable version as of 2011 is Internet Explorer 8.        |
| (c) It is given free for everyone with a legitimate Windows license.    |
| (d) It is a popular target for most of the viruses and similar attacks. |
| (e) It is available in English and Sinhala languages only.              |

11. Which of the following statements is/are true regarding cookies?

- |  |
|--|
| (a) A cookie is a string of characters and numbers.                                |
| (b) Cookies can carry viruses that harm the user's computer.                       |
| (c) A web server sends a cookie to the browser as a request for a unique document. |
| (d) Cookies are extensively used by online merchants.                              |
| (e) Cookies can be used by spyware to track user's browsing activities.            |

12. Match column X with Y.

X	Y
A. Bookmark	i. Records the list of web pages a user has visited recently and associated data
B. Browser History	ii. Stores previous responses from the web servers to reduce bandwidth usage, server load and perceived lag
C. Cookie	iii. Allows a user to ask the browser to remember the URL of an interesting page
D. Web cache	iv. Allows a web server to keep track of the user requests to send a customized page to a returning user

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

13. Select the **incorrect** statement(s) related to static IP addresses.

- |   |
|---|
| (a) Static IP addresses are used for web servers.<br>(b) Static IP addresses are more reliable to host gaming web sites.<br>(c) Static IP addresses have less security risk.<br>(d) Static IP addressing is more cost effective than Dynamic IP Addressing.<br>(e) Static IP addresses are manually assigned to a computer. |
|---|

14. Consider the following incomplete paragraph.

HTML ignores extra space or tabs in the document. You can have multiple spaces between two words but the browser displays any two words with a constant number of white spaces between them irrespective of the number of white spaces between them in the HTML document. This property is known as .....

Select the appropriate word(s) from among the following, to fill in the bank in the above paragraph.

- |  |   |
|--|---|
| (a) default input<br>(c) free-format input<br>(e) default output | (b) formatted output<br>(d) browser-format output |
|--|---|

15. Select the HTML tag(s) that correctly represent(s) document head elements.

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

16. What is/are the correct HTML code(s) for creating a hyperlink?

- |  |
|--|
| (a) <a> http://www.ucsc.bit.lk/ </a><br>(b) <a url=" http://www.ucsc.bit.lk/ "> Welcome to BIT! </a><br>(c) <a src=" http://www.ucsc.bit.lk/ "> Welcome to BIT! </a><br>(d) <a href=" http://www.ucsc.bit.lk/ "> Welcome to BIT! </a><br>(e) <a type=" http://www.ucsc.bit.lk/ "> Welcome to BIT! </a> |
|--|

17. Consider the following line of text.

H<sub>2</sub>O , 12<sup>th</sup> **July**

What type(s) of HTML tags has/have been applied from left to right to display the above line of text in a typical browser?

- |   |
|---|
| (a) <subscript>, <superscript>, <em>, <b> |
| (b) <sub>, <sup>, <b>, <i>                |
| (c) <sub>, <sup>, <em>, <strong>          |
| (d) <sup>, <sub>, <em>, <strong>          |
| (e) <superscript>, <subscript>, <i>, <b>  |

18. Consider the following incomplete paragraph.

----- is an open source WYSIWYG HTML editor that allows non-technical computer users to create an attractive professional-looking web site without needing to know HTML or web coding.

Select the appropriate word(s) from among the following, to fill in the bank in the above paragraph.

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

19. Select the correct statement(s) regarding JavaScript's.

- |   |
|---|
| (a) A JavaScript can be embedded in an HTML document.                     |
| (b) Everyone cannot use JavaScript without purchasing a license.          |
| (c) JavaScript was designed to add interactivity to HTML pages.           |
| (d) There is a particular class of Java applications called JavaScript's. |
| (e) Java and JavaScript have very different semantics.                    |

20. Select the correct statement(s) regarding ActiveX.

- |  |
|--|
| (a) ActiveX can be used to make web pages dynamic.   |
| (b) ActiveX applications reside in the client's computer.  |
| (c) ActiveX applications will be invoked on receiving certain documents by an ActiveX enabled browser.   |
| (d) ActiveX applications will be invoked on receiving certain documents by a JavaScript enabled browser. |
| (e) ActiveX controls are a major source of security problems.  |

21. Consider the following incomplete sentence.

To gather information about web pages, search engines use .....

Select the appropriate word(s) from among the following, to fill in the bank in the above sentence.

- |                         |                       |              |
|-------------------------|-----------------------|--------------|
| (a) spider programs.    | (b) web crawlers.     | (c) cookies. |
| (d) antivirus programs. | (e) spyware programs. |              |

22. Consider the following statements about meta-search engines.

- (i) Mamma.com is an example of a global Meta search engine.
- (ii) Meta-search engines compile a physical database or catalogue of the web.
- (iii) Some meta-search engines search most popular search engines only.

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

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

23. Identify the standard port(s) used by POP3 from among the following.

- |         |         |         |
|---------|---------|---------|
| (a) 25  | (b) 80  | (c) 100 |
| (d) 110 | (e) 115 |         |

24. Select the correct statement(s) about SMTP.

- |  |
|--|
| (a) SMTP decides which path an incoming email message takes on the Internet. |
| (b) SMTP decides which path an outgoing email message takes on the Internet. |
| (c) SMTP uses port 25 as the standard port.                                  |
| (d) SMTP uses port 80 as the standard port.                                  |
| (e) SMTP is a delivery protocol only.  |

25. In email protocols, IMAP stands for

- |   |  |
|---|--|
| (a) Internet Message Access Protocol        | (b) Internet Mail Access Protocol        |
| (c) Internet Mapping Access Protocol        | (d) Internet Mail Authorization Protocol |
| (e) Internet Message Authorization Protocol |  |

26. Web-based email applications eliminate the need for an email client. Select the correct set(s) of webmail applications.

- |  |
|--|
| (a) Gmail, Yahoo Mail, Hotmail             |
| (b) Hotmail, Yahoo Mail, Eudora            |
| (c) Microsoft Outlook, Gmail, Yahoo mail   |
| (d) Yahoo Mail, Hotmail, AOL mail          |
| (e) Eudora, Microsoft Outlook, Thunderbird |

27. Select the correct statement(s) in relation to videoconferencing.

- |  |
|--|
| (a) Videoconferencing is a bi-directional communication between two or more parties using video streams. |
| (b) Not only communication, videoconferencing may involve more collaborative activities.                 |
| (c) Videoconferencing does not use any special hardware.   |
| (d) Video conferencing tools cannot provide any additional facilities like whiteboards.                  |
| (e) MSN messenger is an example of videoconferencing.  |

28. Select the valid email address format(s) from among the following.

- |                      |                         |
|----------------------|-------------------------|
| (a) Abc.example.com  | (b) Abc.xyz@example.com |
| (c) Abc.@example.com | (d) Abc@example.com     |
| (e) Ab@c@example.com |                         |

29. Match column X with Y.

X	Y
A. Email spoofing	i. the intentional sending of large volumes of messages to a target address
B. email harvesting	ii. acquiring sensitive information such as usernames, passwords and credit card details by masquerading as a trustworthy entity
C. email bombing	iii. the process of obtaining lists of email addresses using various methods for use in bulk email or other purposes
D. Email phishing	iv. occurs when the header information of an email is altered to make the message appear to come from a known or trusted source

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

30. Consider the following incomplete statement.

Nowadays most mailing lists are managed by .....programs such as LISTSERV with help from a human list manager.

Select the appropriate word(s) from among the following, to fill in the bank in the above statement.

- |                             |                         |
|-----------------------------|-------------------------|
| (a) Spider                  | (b) Web crawling        |
| (c) Mailing List Management | (d) Multi-Level Mailing |
| (e) Multi-Level Marketing   |                         |

31. Skype can be on

- |             |                     |
|-------------|---------------------|
| (a) iphone. | (b) Android device. |
| (c) Linux.  | (d) Windows XP.     |
| (e) Mac OS. |                     |

32. Select correct statement(s) related to FTP.

- |   |
|---|
| (a) FTP is used only to exchange messages between computers connected to a network.                                     |
| (b) FTP cannot be used to exchange files between computers that run different operating systems connected to a network. |
| (c) FTP server runs FTP server software and listens to the network for requests from a FTP client.                      |
| (d) FTP servers cannot be configured to allow general public to exchange data.  |
| (e) Open is the FTP command used to establish a connection with a remote computer.                                      |

33. Which of the following security related information can be exposed by one's web browser to any website that visits?

- |                            |                                  |
|----------------------------|----------------------------------|
| (a) IP Address of the host | (b) Web browser type             |
| (c) Operating system       | (d) IP address of the DNS server |
| (e) Preferred MIME types   |                                  |

34. Match column X with Y.

X	Y
A Webinar	i. a media presentation distributed over the Internet using streaming media technology to distribute a single content source to many simultaneous listeners/viewers.
B Webcast	ii. a type of media that distributes multimedia files over the Internet for play back on portable media players
C Podcast	iii. a service that allows conferencing events to be shared with remote locations over the Internet
D MP3	iv. a patented digital audio encoding format using a form of lossy data compression.
(a) A-i, B-iv, C-iii, D-ii (b) A-iv, B-ii, C-iii, D-i (c) A-iii, B-i, C-ii, D-iv (d) A-iii, B-ii, C-i, D-iv (e) A-iv, B-i, C-iii, D-ii	

35. Consider the description of a revenue model given below.

Radio and TV channels such as the BBC were able to use this model for their services. Similarly many scholarly works require this model to fund their operations.

What is the revenue model described in the above?

- |                      |                      |
|----------------------|----------------------|
| (a) Direct fee model | (b) Advertising      |
| (c) Subscription     | (d) Online catalogue |
| (e) Utility model    |                      |

36. Consider the following statements.

- (i) RSS is a technology which enables users to tag website content in order to get updates.
- (ii) Most blogging services provide space for journaling with access control which allows the user to make all or part of the content publicly available.
- (iii) In an unmoderated news group, the moderator of the news group is responsible for posting articles to the news group.

Which of the above statements is/are correct?

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

37. In using passwords on the Internet,

- |   |
|---|
| (a) misspelled words or use of every first character of a word phrase yield good passwords. |
| (b) changing the passwords from time to time ensures more security.                         |
| (c) write down the passwords to avoid difficulties.   |
| (d) have a different password for each kind of account.                                     |
| (e) avoid using words from dictionaries or common names.                                    |



38. Consider the following statements related to eLearning.

- (i) eLearning can be used in conjunction with face-to-face teaching.
- (ii) SCORM standard makes eLearning content reusable and sharable.
- (iii) Storyboarding tools can be used in designing eLearning content.

Which of the above statements is(are) correct?

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

39. Match column X with Y.

X	Y
A PBWorks	i. Location to download and develop free open source software
B SourceForge	ii. Online photo management and sharing application in the world
C Flickr	iii. Share your thoughts, photos, and more with your friends and the world
D Twitter	iv. Instantly connect to what's most important to you. Follow your friends, experts, favourite celebrities, and breaking news

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

40. Select correct statement(s) in relation to online social networks.

- |  |
|--|
| <ul style="list-style-type: none"> <li>(a) Social networks rely on advertising to generate the revenue they need to operate the site.</li> <li>(b) Face book is an online social network that allows creating blogs and posting pictures.</li> <li>(c) One can post and download digital music files from social networks.</li> <li>(d) Any social network user is authenticated to upload his/her friend's photograph to the network.</li> <li>(e) LinkedIn is an online social network.</li> </ul> |
|--|

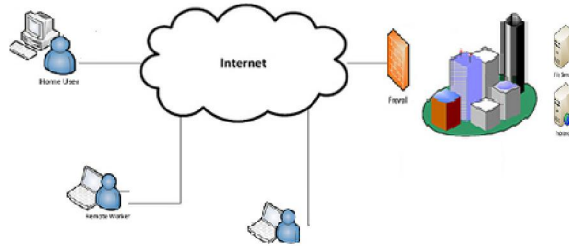
41. Select correct statement(s) related to VNC (Virtual Network Computing).

- |   |
|---|
| <ul style="list-style-type: none"> <li>(a) VNC is a software system that allows you to control another computer remotely.</li> <li>(b) VNC is platform independent.</li> <li>(c) VNC makes it possible to interact with a computer from any computer or mobile device on the Internet.</li> <li>(d) To use VNC you must have a network TCP/IP connection, a VNC server and a VNC viewer to connect to the computer running the VNC server</li> <li>(e) VNC is based on the client server architecture.</li> </ul> |
|---|

42. In which of the following ways would one be able to protect one's web privacy?

- |  |
|--|
| <ul style="list-style-type: none"> <li>(a) Be cautious when filling out forms that require personal information</li> <li>(b) Clean out cache</li> <li>(c) Clean out search history</li> <li>(d) Practice anonymous surfing</li> <li>(e) Reply to unsolicited mail</li> </ul> |
|--|

43. Consider the following diagram.



What does the above diagram represent?

- |         |         |         |
|---------|---------|---------|
| (a) VPN | (b) VNC | (c) EDI |
| (d) CMS | (e) ACM |         |

44. Consider the following incomplete paragraph.

In the ...(A)..... the same key is used to encrypt and decrypt the data. This is similar to using the same key to lock and unlock a door lock.

In contrast, .....(B)..... uses two keys, one key as the encryption key or the .....(C)..... and the other key as the decryption key or the .....(D)..... . This method is very practical compared to the first method.

Fill in the blanks from (A) to (D).

- |  |  |
|--|--|
| (a) (A) public key cryptography<br>(C) public key  | (B) secret key cryptography<br>(D) private key |
| (b) (A) secret key cryptography<br>(C) public key  | (B) public key cryptography<br>(D) private key |
| (c) (A) Encryption<br>(C) public key               | (B) Decryption<br>(D) private key              |
| (d) (A) Decryption<br>(C) public key               | (B) Encryption<br>(D) private key              |
| (e) (A) public key cryptography<br>(C) private key | (B) secret key cryptography<br>(D) public key  |

45. Identify the security protocol that enables secure credit card transactions over the Internet, from among the following.

- |          |            |         |
|----------|------------|---------|
| (a) SSH  | (b) SSL    | (c) SET |
| (d) SFTP | (e) S-HTTP |         |

46. Which of the following is/are correct under email etiquette?

- |   |
|---|
| (a) Make the Subject line summarize the body of the e-mail.   |
| (b) If one is sending email to a whole list of people, it is appropriate to put their email addresses in the BCC field. |
| (c) Email messages are not usually required to be answered immediately, though it is good practice if you do.           |
| (d) Email can be considered as company property and can be retrieved, examined, and used in a court of law.             |
| (e) Email can be used to avoid an uncomfortable situation or to cover up a mistake.                                     |

47. Read the following descriptions about X, Y and Z.

X: ILOVEYOU - sends a copy of an email message, including attachment to everyone in one's Microsoft outlook address book.

Y: AOL4Free – anyone who receives this must send it to as many people as one can.

Z: Word Macro-attach and spread through Microsoft Word and Excel files.

X, Y Z can be respectively,

- |                      |                  |                 |
|----------------------|------------------|-----------------|
| (a) X: Virus,        | Y: Worm,         | Z: Trojan horse |
| (b) X: Trojan horse, | Y : Virus,       | Z: Worm         |
| (c) X: Worm ,        | Y: Hoax,         | Z: Virus        |
| (d) X: Trojan horse, | Y: Worm,         | Z: Virus        |
| (e) X: Worm,         | Y: Trojan horse, | Z: Hoax         |

48. Consider the following scenario.

Personal details in social networking sites can be used in identity theft. In late 2006, a computer worm took over pages on *MySpace* and altered links to direct surfers to websites designed to steal login details.

What is the problem described in the above scenario?

- |                      |              |          |
|----------------------|--------------|----------|
| (a) Money Laundering | (b) Flaming  | (c) Spam |
| (d) Phishing         | (e) Stealing |          |

49. Consider the following messages.

- (i) Programs do not work as usual!
- (ii) Corrupted and missing files!
- (iii) Internet connection disconnects frequently!
- (iv) Unreasonable reduction of hard disk space!
- (v) System fails to boot unexpectedly!
- (vi) Computer is slowing down!

Which of the above messages **cannot** be an indication(s) of a computer virus infection?

- |                         |                          |                          |
|-------------------------|--------------------------|--------------------------|
| (a) (i) only.           | (b) (iii) only.          | (c) (iii) and (iv) only. |
| (d) (iii) and (v) only. | (e) (iii) and (vi) only. |                          |

50. Consider the following statements.

- (i) Transactions over the Internet are completely secure and any information that is transmitted over the Internet is also secure.
- (ii) E-mail messages composed of upper case letters are preferred every time.
- (iii) Forwarding e-mail messages is always ethical, as email is meant for communication.
- (iv) A group of researchers uses Skype to make long discussions free of charge and it is legal.

Which of the above statements is/are correct?

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

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