



**SLIATE**

SRI LANKA INSTITUTE OF ADVANCED TECHNOLOGICAL EDUCATION

(Established in the Ministry of Higher Education, vide In Act No. 29 of 1995)

**Higher National Diploma in Information Technology**

**First Year, First Semester Examination - 2011**

**IT 1007 – Internet and Applications**

**Instructions to Candidates**

1. This question paper has **three (03)** pages including this page.
2. There are **eight (08)** questions.
3. Answer any **five (05)** questions.
4. All questions carry equal marks.
5. Time allowed is **three (03)** hours.

**Q1. (Total 20 marks)**

- (i) (a) Define the term Internet. (03 marks)
- (b) Name two (02) web browsers and two (02) search engines. (02 marks)
- (c) Is the Internet a good thing? Explain your answer with reasons. (03 marks)
- (ii) (a) How did the Internet begin? Briefly Explain. (05 marks)
- (b) What do you mean by Internet governance? (03 marks)
- (c) Does the Internet require governance? (04 marks)

**Q2. (Total 20 marks)**

- (i) (a) As technology grows, we need bigger, better and faster Internet connections. There are two basic types of Internet connections namely, 'wireless and cable' connection. Discuss advantages and disadvantages of each of them. (04 marks)
- (b) Before getting the internet connection what features do we need to consider? (04 marks)
- (c) Write down **two (02)** Internet connection types more suitable for businesses. (02 marks)
- (ii) Write down short notes on followings.
  - (a) Modem
  - (b) Wi-Fi
  - (c) Dial-up connection
  - (d) Domain names $(2.5 \times 04 = 10 \text{ marks})$

**Q3. (Total 20 marks)**

- (i) Differentiate between Internet and World Wide Web. (05 marks)
- (ii) What do you meant by FTP? (03 marks)
- (iii) Describe advantages of FTP. (03 marks)
- (iv) Write short notes on the followings,
  - (a) Email client
  - (b) Email footer
  - (c) Email signature $(3 \times 03 = 09 \text{ marks})$

**Q4. (Total 20 marks)**

- (i) (a) Websites can be organized by its function, List down three categories of them. (03 marks)
- (b) What do you mean by web syndication? Briefly Explain. (05 marks)
- (ii) (a) What are the Differences between static and dynamic websites? (06 marks)
- (b) What are the purposes of dynamic websites? (04 marks)
- (c) Name a collaborative website that allows users to create or modify content. (02 marks)

**Q5. (Total 20 marks)**

- (i) (a) What is "Home Page"? (02 marks)  
 (b) What is hypertext? (02 marks)  
 (c) Write the expansions of the acronyms HTML and XML. (02 marks)  
 (d) Give two (02) examples for web 1.0 sites? (02 marks)
- (ii) (a) What is web? (02 marks)  
 (b) Compare and contrast between Web 1.0 and Web 2.0 with suitable examples. (06 marks)  
 (c) What is a blog? Explain it briefly. (04 marks)

**Q6. (Total 20 marks)**

- (i) What is the meaning of Social Networks? Briefly Explain. (05 marks)  
 (ii) Write down three (03) Social Network sites. (03 marks)  
 (iii) What is the meaning of e-commerce? Give three (03) examples. (07 marks)  
 (iv) What is the meaning of e-governance? Briefly Explain. (05 marks)

**Q7. (Total 20 marks)**

- (i) (a) What is Computer Security? (03 marks)  
 (b) What is Network Security? (02 marks)  
 (c) What is Internet Security? (03 marks)
- (ii) (a) Information Security is concerned with three (03) main areas. Name and describe those three (03) areas. (06 marks)  
 (b) When we doing instant chatting (Skype, gtalk, etc...) viruses can attack our machine. How could that happen and how can we avoid it? (03 marks)  
 (c) What does antivirus software do? (03 marks)

**Q8. (Total 20 marks)**

- (i) (a) What are the technologies designed to protect network connections and data transfer over the Internet? Name three (03) of them. (03 marks)  
 (b) Briefly explain about virtual private network (VPN). (05 marks)
- (ii) (a) Briefly explain term Data Encryption with its process. (06 marks)  
 (b) How can you protect your privacy on the Internet? Briefly explain. (06 marks)