

#### EASTERN UNIVERSITY, SRI LANKA DEPARTMENT OF MATHEMATICS

# THIRD YEAR EXAMINATION IN SCIENCE - 2012/2013

### SECOND SEMESTER (June, 2016)

## CS 303 - INTERNET AND MULTIMEDIA APPLICATIONS

(SPECIAL REPEAT)

uestions

Time allowed: 02 hours

et interconnects hundreds of millions of computing devices throughout the world.

the infra structure of Internet with the aid of network components.

sthe difference between Internet and World Wide Web?

explain the cookie technology which is commonly used in commercial websites?

hort notes on following topics:

Transmission Control Protocol (TCP).

Web Server;

File Transfer Protocol (FTP);

Internet Service Provider (ISP);

be briefly the uses of Internet with respective examples.

less is that uniquely and universally defines the connection of the end system to the internet.

is sub netting? Why we need to subnet the network addresses?

aflow chart to find out the class of given network address.

der a class B address, 178.2.h.h, and its default mask of 255.255.0.0 if this needs to be rearranged #subnets, Find:

The subnet mask;

3rd subnet ID and its broadcast address;

IP address of subnet 5 & its usable range;

What subnet does the address 178.2.3.40 & 178.2.33.69 belong to and what are their subnet & broadcast addresses respectively?

- a) Hyper Text Transfer Protocol (HTTP) is the foundation of data communication for the Wolf Web. Briefly explain how HTTP works.
- b) Draw a general format of an HTTP request message.
- c) Briefly describe the following request methods:
  - i. GET:
  - ii. HEAD;
  - iii. DELETE;
  - iv. CONNECT;
- d) Distinguish between persistent and non-persistent connections with an aid of a diagram.
- e) Briefly explain following common status codes;
  - i. 200 OK:
  - ii. 301 Moved Permanently;
  - iii. 400 Bad Request;
  - iv. 404 Not Found:

#### 04.

- a) List three protocols which are commonly used in E-mail. State the main function of those pro-
- b) Briefly explain the process of sending E-mail from a sender to a recipient. (Use appropriate support your answer.)
- Discuss the process of Address Resolution Protocol (ARP) and Reverse Address Resolution (RARP) with a suitable example.
- d) Write down three services of Domain Name System (DNS).
- e) Why we need to compress data in a multimedia system?
- f) List two types of data compression methods with example.