

Unique Paper Code	:	32345103
Code of the Paper	:	GE-III (Old Course)
Name of the Paper	:	Computer Networks and Internet Technologies
Name of the Course	:	B.Sc. (H)
Semester	:	Semester - I
Duration of Examination	:	3 Hours
Maximum Marks	:	75

Instructions for Candidates:

- i. Attempt any four questions from Question 1 to Question 6.
- ii. Each Question carries equal marks.

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1. With the help of an example, differentiate between a URI and URL. Also explain the components of a URL.

Further, discuss the various ways in which CSS code can be incorporated in an HTML document. Provide a CSS code to format the paragraph, body and h1 tags so that they display text with different colors, different fonts and sizes.

2. Compare the characteristics of different types of guided media. Which is the preferred guided media for deployment under the oceans?

Also, write an HTML code to create a part of Periodic Table as given below.

I	II	III	IV	V	VI	VII
H		Periodic Table of Elements				He
Li	Be				B	Ne
Na	Mg				Al	Ar
K	Ca	Sc	Ti	V	Ga	Kr

3. Discuss the role of DNS in the Internet.

Also write a code to create the following form in HTML

## LOGIN FORM

Username:

Password:

City of  
Employment:

Web server:

Please specify  
your role:

☐ Admin

☐ Engineer

☐ Manager

☐ Guest

Single Sign-on  
to the following:

☐ Mail

☐ Payroll

☐ Self-service

4. Explain the layers in which following tasks are performed in the ISO-OSI reference model.
- Physical addressing
  - Logical addressing
  - Routing
  - Session Management
  - Encryption/Decryption

What are frames? Discuss the **Frameset** tag and the **iframe** tag used in HTML to create frames and write HTML code to create the following layout using them.

FRAME 1	FRAME 2
	FRAME 3
	FRAME 4

5. Write short notes on FTP, TELNET and SMTP.

Also write a Javascript code to swap the value of two variables. (Swap means interchange. If  $a = 10$  and  $b = 20$  then after swapping  $a = 20$  and  $b = 10$ ).

6. Write short notes on different types of network topologies (Bus, Ring, Mesh, Star). Which topology is the best for broadcasting? Justify your answer.

Write a HTML code to create the table below as it is:

Find x using the formula, $x = a^2 + b^2 - 4ab$			Put an Image in this Cell
a	b	x	