Enrollment No......................................

Faculty of Science
End Sem (Odd) Examination Dec-2022
BC3EC06 Internet Technologies

Programme: B.Sc. (CS)   Branch/Specialisation: Computer Science

Duration: 3 Hrs.   **Maximum Marks: 60**

Note: All questions are compulsory. Internal choices, if any, are indicated. Answers of Q.1 (MCQs) should be written in full instead of only a, b, c or d.

Q.1 i. Internet access by transmitting digital data over the wires of a local telephone network is provided by-   **1**
(a) Leased line   (b) Digital subscriber line
(c) Digital signal line   (d) None of these

ii. Version 6 of IP address has how many bits-   **1**
(a) 64 bits   (b) 128 bits   (c) 32 bits   (d) 256 bits

iii. Which element is used to define a discrete unit of content such as a blogpost, comment, and so on?   **1**
(a) Section   (b) Class
(c) Article   (d) None of these

iv. _____ contains the navigation menu, or other navigation functionality for the page.   **1**
(a) Section   (b) Header   (c) Nav   (d) Aside

v. _____ selectors, which are used to specify a rule to bind to a unique element.   **1**
(a) Id   (b) Class
(c) Tag   (d) Both (b) and (c)

vi. Which of the following is a value of font-style property?   **1**
(a) Normal   (b) Italic
(c) Oblique   (d) All of these

vii. JavaScript is a _____ language.   **1**
(a) Object-Oriented   (b) High-level
(c) Assembly-language   (d) Object-Based

viii. The function definitions in JavaScript begins with- **1**
(a) Function keyword, identifier and parentheses
(b) Return type and identifier
(c) Return type, function keyword, identifier and parentheses
(d) Identifier and return type

ix. By electronic commerce we mean- **1**
(a) Commerce of electronic goods
(b) Commerce which depends on electronics
(c) Commerce which is based on the use of internet
(d) Commerce which is based on transactions using computers connected by telecommunication network

x. Which type of e-commerce focuses on consumers dealing with each other? **1**
(a) B2B   (b) C2C   (c) B2C   (d) C2B

Q.2 i. Differentiate between internet and intranet. **2**

ii. Define the use of HTTP, FTP and URL. **3**

iii. What do you mean by web browser and web server? Explain their working. **5**

OR iv. Briefly explain: **5**
(a) Domain name   (b) IP address
(c) Search Engines   (d) Internet protocols
(e) Web Portals

Q.3 i. Write an HTML web page with their basic structure only. **2**

ii. Write an HTML web page contains minimum three paragraphs with different colours, size and formatted text. **3**

iii. Create an HTML web page contains ordered and unordered list within table structure with proper heading of list. **5**

OR iv. Create an HTML web form with at least five form control elements. **5**

Q.4 i. Explain CSS id and class attribute with example. **2**

ii. Write minimum four CSS properties of each of the following: **8**
(a) Background formatting   (b) Text formatting
(c) List formatting   (d) Table formatting

OR iii. Create a web page with box layout using CSS border, padding and margin properties. Also enlist CSS colour properties in it. **8**

Q.5 i. Write any four functions of each of the following in java script: **4**
(a) String manipulation   (b) Mathematical functions

ii. Write a Java Script program for taking input three numbers from the user and display the highest number using message box. **6**

OR iii. Write a java script program to take five inputs from the user and display the entered number in ascending form using array. **6**

Q.6 Attempt any two:

i. What do you mean by Electronic Fund Transfer (EFT)? What are the various ways of doing it. **5**

ii. What are the building blocks of E-Commerce? Explain each with example. **5**

iii. Comment on the impact of E-Commerce on past, present and future scenarios. **5**

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BC3EC06 Internet Technologies
Marking Scheme

Q.1

i. **Answer: b) digital subscriber line** — 1

ii. **Answer: b) 128 bits** — 1

Explanation: Because of the growth of the Internet and the depletion of available IPV4 address, a new version of IP(IPV6), using 128 nits for the IP address, was developed in 1995, and standardized as RFC 2460 in 1998. IPV6 deployment has been ongoing since the mid 2000s.

iii. **Answer: c) article** — 1

Explanation: The article tag contains a standalone piece of content that would make sense if syndicated as an RSS item, for example a news item.

iv. **Answer: c) nav** — 1

Explanation: The nav element is for marking up the navigation links or other constructs (eg a search form) that will take you to different pages of the current site, or different areas of the current page.

v. **Answer: a) id** — 1

vi. **Answer: d) All of these** — 1

vii. **Answer: d) Object-Based** — 1

Explanation: JavaScript is not a full-blown OOP (Object-Oriented Programming) language, such as Java or PHP, but it is an object-based language.

viii. **Answer: a) Function keyword, Identifier and Parentheses** — 1

Explanation: The function definitions begin with the keyword function followed by an identifier that names the function and a pair of parentheses around a comma-separated list of zero or more identifiers.

ix. **Answer: d) Commerce which is based on transactions using computers connected by telecommunication network** — 1

x. **b) C2C** — 1

Q.2

i. Difference between Internet and Intranet — 2

(One mark for each point: 1*2)

ii. Define the use of HTTP, FTP and URL — 3
(One mark for each: 1*3)

iii. Meaning of web browser and web server — 3
Working with respect to Internet — 2

OR iv. Briefly explain: — 5
(a) Domain name   (b) IP address   (c) Search Engines
(d) Internet protocols   (e) Web Portals
(One mark each: 1*5)

Q.3

i. HTML web page with their basic structure only — 2
- Do step wise marking

ii. HTML web page contains minimum three paragraphs with different colours, size and formatted text. — 3
- Do step wise marking (One mark for each type)

iii. HTML web page contains ordered and unordered list within table structure with proper heading of list. — 5
- Do step wise marking (2.5 each for ordered and unordered list)

OR iv. HTML web form with at least five from control elements. — 5
- Do step wise marking (One mark for each control)

Q.4

i. CSS id and class attribute with example. — 2
(One mark each: 1*2)

ii. Minimum four CSS properties of each of the following: — 8
(a) Background formatting,
(b) Text formatting,
(c) List formatting and
(d) Table formatting.
(two marks each: 2*4)

OR iii. Web page with box layout using CSS Border, Padding and Margin properties. Also enlist CSS colour properties in it. — 8
- Do step wise marking (Two marks for each type properties.)

Q.5

i. Four functions of each of the following in Java Script: — 4
(a) String manipulation, and (b) Mathematical Functions
(Two marks each: 2*2)

ii. Java Script program for taking input three numbers from the user and display the highest number using message box. — 6
- Do step wise marking

OR	iii.	Write a Java Script program to take five inputs from the user and display the entered number in ascending form using array. - Do step wise marking	6

Q.6   Attempt any two:

	i.	Electronic Fund Transfer (EFT) Various ways of doing it	2 3
	ii.	Building blocks of E-Commerce Explain each with example.	2 3
	iii.	Comment on the impact of E-Commerce on past, present and future scenarios. (Minimum five points: One mark for each point)	5