



BRAINWARE UNIVERSITY

Brainware University 398, Ramkrishnapur Road, Barasat Kolkata, West Bengal-700125

Term End Examination 2024-2025
Programme – BCA-2022
Course Name – Internet Technologies
Course Code - BCAE501A
(Semester V)

Full Marks: 60

Time: 2:30 Hours

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

Group-A

(Multiple Choice Type Question)

1 x 15=15

- 1. Choose the correct alternative from the following:
- (i) Identify the protocol used for translating domain names into IP addresses essential for web navigation.
 - a) HTTP
 - c) DNS
- (ii) What is the primary purpose of networking?
 - a) To connect multiple computers together
 - c) To store data
- (iii) What is DNS stands for
 - a) Domain Network System
 - c) Digital Network Security
- (iv) What is the main function of HTTP?
 - a) To send and receive emails
 - c) To transfer web pages from servers to browsers
- (v) What is IP masquerading?
 - a) A method of hiding internal IP addresses behind a single public IP address
 - c) A protocol used to translate domain names

- b) DHCP
- d) NAT
- b) To increase the speed of a single computer
- d) To enhance the performance of software
- b) Domain Name System
- d) Data Name Service
- b) To establish secure network connections
- d) To resolve domain names to IP addresses
- b) A type of IP address used only in secure networks
- d) A software used to encrypt data
- (vi) Which type of routing protocol is used within a single autonomous system?
 - a) Inter-domain routing protocol
 - c) BGP
- (vii) Which protocol is used for multicast routing?
- b) Intra-domain routing protocol
- d) OSPF

	a) RIP	b) IGMP d) BGP	Kolkata, West Bengal-7
		otocol (IP) operate at?	
(viii)	c) OSPF Which layer of the OSI model does the Internet Pr	b) Data Link layer	
	a) Physical layer	d) Transport layer	
	c) Network layer Show the correct answer to which of the following	programming language is comm	only
(ix)	Show the correct answer to which of the following	5, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6, 6,	,
	used for server-side scripting in web development	b) CSS	
	a) HTML	d) PHP	
	c) JavaScript Show the correct answer to what are tables in we		
(x)	Show the correct answer to what are tasks	b) Containing more number of re	ows than
	a) Display information which are already	columns	
	accessed by the user	d) Display information in rows ar	nd columns
	c) To only store data to be accessed later by the	used to display all manner of	data that fits in
	user	a grid	
(xi)	Identify the correct answer to which of the followitems.	ing properties defines labels for a	list of
	a) list-style-type	b) list-style-image	
	A 11-4 -4-1-list stulp tupo	d) none of the mentioned	
(xii)	Identify the correct answer to which CSS property element.	\imath is used to specify the width of a	n
	a) padding	b) margin	
	c) height	d) width	
(xiii	Choose the function that is used to get the length		
	a) strlen()	b) strlength()	
	c) length()	d) strsize()	
(xiv) Choose the default method for submitting a form		
	a) GET	b) POST	
	c) PUT	d) DELETE	
(xv) Choose the correct way to delete a file in PHP.	460.	
	a) delete(\$file);	b) remove(\$file);	
	c) unlink(\$file);	d) drop(\$file);	
	Grou	р-В	
	(Short Answer Ty	•	3 x 5=15
	Explain the use of the "form" element in HTML and Build a basic HTML form that includes text input, a r		(3) ubmit (3)
	outton.	adio buttori, a crieckbox, and a se	ibline (9)
	Compare and contrast the alert and console.log me	thods in JavaScript.	(3)
5. What is the role of DNS in networking?			(3)
6.	Explain Virtual Private Network (VPN) and how doe	s it work?	(3)
OR			(2)
	Explian IP Security (IPsec) and what are its primary	components?	(3)
	Grou	ıp-C	
	(Long Answer Ty		5 x 6=30
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7.	Demonstrate an array in JavaScript ,how do you declare and access arrays?	(5)
8.	Explain the importance of password policies in ensuring network security.	(5)
9.	How does Secure Socket Laver (SSL) ensure secure communication over the internet?	(5)
10.	. Define and differentiate between unicast and multicast routing.	(5)
11.	. Assess the effectiveness of various hardware and software technologies in ensuring network security.	(5)
12.	. Evaluate different authentication methods used in network security.	(5)
	OR	
	Critically evaluate the security and privacy benefits of using a VPN.	(5)
