



## **BRAINWARE UNIVERSITY**

Term End Examination 2024-2025
Programme – B.Sc.(FND)-Hons-2024
Course Name – Digitalization and its Impact
Course Code - VAC00005
( Semester II )

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

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) What is the primary advantage of Cloud Storage?
  - a) Accessibility

b) Security

c) Cost-effectiveness

d) Speed

- (ii) Define the CIA Triad.
  - a) Confidentiality, Integrity, Availability
  - c) Complexity, Inaccessibility, Adaptability
- b) Cybersecurity, Intrusion, Authorization
- d) Credibility, Interoperability, Adaptability
- (iii) Select an example of Cloud-based Data Centre.
  - a) Google Cloud Data Centre

- b) Physical Data Centre
- c) Amazon Web Services (AWS)
- d) Direct Attached Storage (DAS)
- (iv) Choose the primary focus of cyber-crime level 'Phishing'.
  - a) Unauthorized Access

b) Data Manipulation

c) Social Engineering

- d) Network Disruption
- (v) What is the primary consideration in Data Centre Cloud based?
  - a) Security

b) Accessibility

c) Cost

- d) Speed
- (vi) Identify a method used for securing data in transit.
  - a) Encryption

b) Authentication

c) Antivirus

- d) Firewall
- (vii) Choose a technology providing a secure private network over the internet.
  - a) VPN

b) VLAN

c) NAT

d) DDoS

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(viii)	Classify individuals who use pre-written tools based on their skill level.		
	a) Script Kiddies	b) White Hat Hackers	
	c) Black Hat Hackers	d) Grey Hat Hackers	
(ix)	Define the primary motivation of Black Hat Hack	kers.	
	a) Financial gain	b) Ethical hacking	
	c) Knowledge sharing	d) Cybersecurity advocacy	
(x)	Name a common consequence of hardware vulnerability.		
	a) System crashes	b) Code execution	
	c) Data leaks	d) Network congestion	
(xi)	Define spyware.		
	a) Gather information	b) Display advertisements	
	c) Self-replicate	d) Encrypt files	
	Describe scareware's primary tactic.		
	a) Displaying scary pop-ups	b) Gathering information	
	c) Encrypting files	d) Self-replication	
(xiii)	Describe the primary role of Security Incident R	esponse Teams (SIRTs).	
	a) Develop Software Applications	b) Analyze Threat Intelligence	
	c) Respond to and Mitigate Incidents	d) Optimize Network Performance	
(xiv)	Identify a primary goal of Security Risk Assessments.		
	a) Maximize Security Investments	b) Identify and Mitigate Risks	
	c) Optimize Business Processes	d) Enhance Employee Productivity	
(xv)	Choose a type of attack exploiting previously un	known vulnerabilities.	
	a) Malware	b) Zero-day exploit	
	c) Brute force attack	d) Spear phishing	
	Gro	up-B	
	(Short Answer	Type Questions) 3	x 5=15
	now how firewalls contribute to internet security affic with an example.	and what their role is in controlling network	(3)
	efine Threat Intelligence with example.		/2\
	hat is N.A.S.?		(3) (3)
	escribe network security.		(3)
6. Sı	Immarize the importance of continuous monitor ardware vulnerabilities.	ing and mitigation efforts in addressing	(3)
		OR .	
Ca	stagorize Software Vulnerabilities.		(3)
			(5)
	Gro	up-C	
			5 x 6=30
7. I	low does encryption contribute to endpoint sec	urity? Provide an example of how encryption	(5)
(	an protect sensitive data on individual devices.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	. ,
8. [	Define the legal aspect of Ethical Hacking.		(5)
9. [	Describe the activities and behaviours associated	with a Man-In-The-Middle (MitM) attack,	(5)
r	nighlighting its potential consequences on intercollata.	epted communications and compromised	

- 10. Evaluate the characteristics and potential impact of Distributed Denial-of-Service (DDoS) attacks, considering their scale and the difficulties in mitigating such large-scale disruptions.
- 11. Explore the principles and practices of Password Management, emphasizing how these practices contribute to enhanced cybersecurity. (5)
- 12. Examine the role and significance of Threat Intelligence in cybersecurity, categorizing its different levels and explaining how collaboration within the industry enhances a collective defense against cyber threats.

OR

Analyze the best practices for ensuring email security, focusing on measures to protect against (5) phishing attempts and the use of encryption for sensitive data.

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