

**Goa Vidyaprasarak Mandal's**

**GOPAL GOVIND POY RAITURCAR COLLEGE OF COMMERCE AND ECONOMICS PONDA - GOA**

**B.C.A. CBCS (SEMESTER-V) REGULAR EXAMINATION NOVEMBER 2023**

**CYBER SECURITY(CAD101)**

**DURATION – 2 hours**

**MARKS: 60**

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**Instruction:**

1. All questions are **compulsory**.
  2. Figures to the **right** indicate **full** marks.
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**Q.1** A. Answer the following: **5x1 = 5**

- i. Name two common types of cyber-attack.
- ii. Define Digital Forensics.
- iii. Define the term 'VPN' in the context of online anonymity.
- iv. "Cloud storage is safer than device storage". State whether the statement is **True** or **False**. **5x1 = 5**
- v. Define e-Discovery

B. Match the following:

- |                    |                                   |
|--------------------|-----------------------------------|
| i. Polynology      | A. Secure data transfer           |
| ii. Proxy server   | B. Pollen Analysis                |
| iii. Malware       | C. Concealing identity activities |
| iv. HTTPS Protocol | D. Hiding identity                |
| v. Anonymity       | E. Malicious software             |

**Q.2** Answer the following: **10**

- A) Highlight the significance of forensic ballistics. **2**
- B) List down any three best practices for preventing unauthorized access. **3**
- C) Discuss various Online Tracking techniques. **5**

**Q.3** Answer the following: **10**

- A) Define the following: **2**
- 1) Stalking and 2) Obscenity in internet.

**P.T.O.**

	B) Discuss the following anonymous networks in detail: 1) TOR 2) I2P 3) Freenet	3
	C) Imagine you are a digital forensics officer. A social engineering crime has been reported which you need to investigate. One main evidence collected from the crime scene is the mobile. What processes are you going to perform in mobile forensics?	5
<b>Q.4</b>	Answer the following:	<b>10</b>
	A) Compare and contrast symmetric and asymmetric key encryption algorithms.	2
	B) Write a note on 1) fingerprint recognition 2) iris recognition 3) face recognition	3
	C) Explain in detail any 5 Intellectual properties.	5
<b>Q.5</b>	Answer the following:	<b>10</b>
	A) Explain in detail Cryptographic Trust Model Kerberos.	2
	B) Write a note on internet hacking and cracking.	3
	C) Explain in detail what is digital signature and its working with the help of a diagram and an example.	5
<b>Q.6</b>	Answer the following:	<b>10</b>
	A) Write a note on Encrypt DNS Traffic	2
	B) What is the significance of war driving in cyber crime investigation?	3
	C) Explain briefly any five cryptographic system attacks.	5

\*\*\*\*\* ALL THE BEST \*\*\*\*\*