

## IMBA (CSM) (NEP) Sem.-3 Examination

## DSC-C-ICSM-233T

## Social Engineering and OSINT

Time : 2-00 Hours]

November-2025

[Max. Marks : 50

**Question 1: Answer the following questions:**

- i. Discuss the legal framework governing OSINT activities in India, referencing key provisions from the IT Act 2000, RTI 2005, and PDPA 2019. Explain how these laws impact OSINT investigations. 5Marks
- ii. Discuss any seven major OSINT tools and explain how each supports intelligence collection and analysis. 5Marks

**OR**

- i. How does Google Dorking differ from normal search engine usage, and what are its benefits and risks in investigative intelligence? 5Marks
- ii. Why is verification of OSINT data crucial before reporting, and how can multiple-source validation improve accuracy? 5Marks

**Question 2: Answer the following questions:**

- i. What is DNS OSINT, and how can WHOIS lookups and DNS records help trace the ownership and infrastructure of a suspicious website? 5Marks
- ii. During a corporate breach investigation, you identify an unknown IP address communicating with internal servers. Describe how network analysis combined with OSINT. 5Marks

**OR**

- i. How can image and video analysis be used to detect manipulation, confirm authenticity, or identify geographic clues? 5Marks
- ii. How does wireless OSINT contribute to security auditing? Describe tools and techniques are used for discovering SSIDs, analyzing traffic, and assessing encryption levels? 5Marks

**Question 3: Answer the following questions:**

- i. A company suspects that a fake recruitment agency is using its name. Describe how you would perform an OSINT investigation using people-search engines and social platforms to identify those responsible. 5Marks

- ii. Explain the types of data derived from social media (posts, connections, images) and how OSINT analysts use them to map relationships and behavioral patterns. 5Marks

**OR**

- i. What are the different types of data sources used in geolocation investigations, and how can visual cues and metadata assist in locating an image or user? 5Marks
- ii. Describe the process of investigating an email address using OSINT. Include data collection methods, header analysis, and verification of authentication records. 5Marks

**Question 4: Answer the following questions:**

- i. What is Business OSINT, and how can it be used for competitive intelligence and corporate risk assessment? 5Marks
- ii. How does OSINT differentiate between the surface web, deep web, and dark web, and why is this classification important for investigators? 5Marks

**OR**

- i. What are the essential steps in preparing and presenting an OSINT report, and how should data integrity and confidentiality be maintained? 5Marks
- ii. You are hired by a multinational firm to evaluate a new overseas supplier. Describe how you would conduct a Business OSINT investigation to assess financial stability, reputation, and legal history. 5Marks

**Question 5: Attempt any Ten out of Twelve.**

10 Marks

1. Which Google Dork operator would you use to locate configuration files exposed online?
2. Which legal instrument in India enables citizens to request public data, making it an institutionalized OSINT channel?
3. Ethical OSINT collection must always prioritize the subject's consent over investigative necessity. (True/False)
4. Between reconnaissance and reconstruction, which stage introduces the highest risk of analytical leakage?
5. In DNS OSINT, what does a reverse lookup reveal?
6. What is the role of network analysis in OSINT?
7. DMARC operates independently of SPF and DKIM validation. (True/False)
8. Give advantage of cross-verifying social-media data with people search engines.
9. Name open-source tool for data breach intelligence correlation.
10. Financial disclosures are considered closed-source intelligence. (True/False)
11. What type of data from Google Maps or Street View can assist Business OSINT analysts?
12. Which government platform in India provides corporate compliance and filing information?

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