

30.05.2024

(Total Marks: 80)

(Time: 3 Hours)

Note:

1. Question No.1 is compulsory.
2. Attempt any three out of the remaining Five questions.
3. Assume suitable data if necessary.

- Q. 1. Answer any FOUR of the following: (20)
- (a) Define Environmental Objective as per ISO 14001
 - (b) What are the challenges in implementation of ISO 14000 standards?
 - (c) Unawareness or ignorance of environmental protection will lead to detrimental consequence, comment. Justify the statement.
 - (d) Write short note on Global Warming as a Global Environmental Concern.
 - (e) Discuss on Applications of Environmental Management System..
 - (f) Discuss the key success factors for applied to almost all the operation for EMS implementation. (10)
- Q. 2. (a) What is Wafer (P & CP) Act? Give its objectives. (10)
- (b) Discuss in short about Environment Protection Act. (10)
- Q. 3. (a) Discuss roles of Government as regulatory agency for Environmental Management. Enlist 3 points. (10)
- (b) Explain limiting factors and carrying capacity as related to Ecosystems. (10)
- Q. 4. (a) What is Total Quality Environment Management Concept? (10)
- (b) How is CSR related to Environmental Management? Explain with an example. (10)
- Q. 5. (a) Elaborate the ISO-14001 EMS Model for Municipalities. (10)
- (b) Discuss in short about EMS certification. (10)
- Q. 6. Answer the following (20)
- (a) Discuss on Wildlife protection Act.
 - (b) What are the guidelines to conduct and Environmental audit?



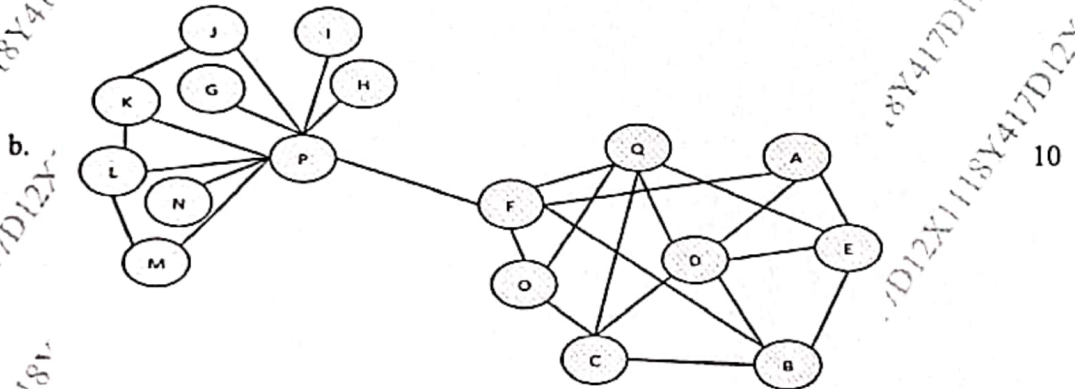
Duration: - 3 Hours

Marks: 80 Marks

- N.B. : (1) Question No 1 is Compulsory.
 (2) Attempt any three questions out of the remaining five.
 (3) All questions carry equal marks.
 (4) Assume suitable data, if required and state it clearly.

- Q.1 20
 a. What is predictive analytics? 5
 b. What is text analytics, and why it is useful? 5
 c. What is search engine analytics? 5
 d. Explain the steps needed to formulate a social media strategy. 5

- Q.2 a. Differentiate among social media, Web 2.0, and social network sites. 10
 How degree distribution is plotted for the graph? Show degree distribution of the following graph.



- Q.3 a. Explain Social Media Action Analytics, Common Social Media Actions and Actions Analytics Tools. 10
 b. Explain tools of Hyperlink Analytics. 10

- Q.4 a. List all the location analytics tools and also explain working of every tool. 10
 b. What is social media risk? Explain the four steps in social media risk management 10

- Q.5 a. Discuss various privacy attributes of Social Media Sites. 10
 b. What is Location analytics? Explain its significance in context of social media analytics? 10

- Q.6 Write short notes on any two 20
 a. Centralization in social media analytics with example.
 b. Challenges of social media analytics.
 c. Automated, Traditional and Social recommender systems.
 d. Social Media Risks Management Framework.



Time: 3 hours

Max. Marks: 80

Instructions:

- 1) Only Four question need to be solved.
- 2) All question carries equal marks.
- 3) Illustrate your answers with neat sketches wherever necessary.
- 4) Figures to the right indicate full marks.
- 5) Assume suitable additional data, if necessary and clearly state it.
- 6) All sub-questions of the same question should be grouped together.

- Q.1 (a) What is Evidence? Explain the various types of digital evidence. 05
(b) Discuss the significance of ICCID, IMSI, MSISDN and LAI. 05
(c) What are the potential challenges or limitations associated with conducting Windows registry analysis? 05
(d) Define digital forensics and explain its goal in detail. 05
- Q.2 (a) What constitutes a computer security incident? What objectives are pursued through incident response? Elaborate on the concept of CSIRT. 10
(b) What are the challenges of acquiring Volatile Memory (Live Acquisition)? Give the tools used for Acquiring Volatile Memory. 10
- Q.3 (a) What are the potential risks involved in hard drive imaging during digital forensic investigations? Explain. 10
(b) How does Autopsy utilize advanced file carving techniques to recover deleted or fragmented files? 10
- Q.4 (a) Explain the process of conducting a static acquisition of digital evidence from a storage device. 10
(b) Explain in detail the process of reviewing pertinent logs in Unix systems investigation. 10
- Q.5 (a) How does forensic analysis of Microsoft Edge differ from other Web browsers, such as Google Chrome or Mozilla Firefox? 10
(b) What is GPS forensic? Explain the structure of the GPS device. Explain GPS Exchange Format (GPX). 10
- Q.6 (a) What is data carving, and how does it contribute to digital forensic investigations? 10
(b) Explain what SIM cards Forensics means. Explain the SIM architecture and file structure. Explain evidence extraction in SIM card forensics. 10

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B.E / comp / sem - VIII / May, 2024

Date: - 14-05-2024

Duration: 3Hrs

[Max Marks: 80]

- N.B.: (1) Attempt any four questions
(2) All questions carry equal marks
(3) Assume suitable data, if required and state it clearly

- Q1 A Explain any five data centric consistency models with example data stores. [10]
B Explain different load estimation policies and process transfer policies used in load balancing approach of distributed system. [10]
- Q2 A What is Remote Procedure Call? Describe the working of RPC in detail. [10]
B Explain Bully election algorithm. [10]
- Q3 A Discuss design and implementation issues of distributed shared memory. [10]
B What are desirable features of a good DFS? [10]
- Q4 A Discuss various issues and goals related to design of distributed system. [10]
B What is distributed mutual exclusion? Explain how Suzuki-Kasami's broadcast algorithm achieves distributed mutual exclusion. [10]
- Q5 A What is need of code migration? Explain the role of process to resource and resource to machine binding in code migration. [10]
B Explain various file caching schemes. [10]
- Q6 A What is physical clock? Explain any one physical clock synchronization method. [10]
B What is fault tolerance? Describe different types of failure models. [10]



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