

Roll No: -----



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, April 2018

Program: B. Tech CS SCF

Semester – VIII

Subject (Course): Info. Security Intelligence & Compliance Analytics

Max. Marks : 100

Course Code : CSIB 448

Duration : 3 Hrs

No. of page/s: 2

Section A: Attempt all questions. [5×4=20]

1. What do you mean by Big data?
2. Build relation between big data, data mining and data analytics.
3. Explain how big data analytics aids in cyber security and forensics.
4. Pen down the various roles of a data scientist.
5. Explain Security Business Analytics.

Section B: Attempt all questions. [4×10=40]

6. Elaborate the steps involved in securing big data. In context to information security list down the benefits of security analytics.
7. Explain the various phases involved in creating big data team. Identify the factors affecting network configuration manager.
8. Reiterate the Big Data adoption process. Also, discuss the architecture of big data.
9. Differentiate using examples, structured and unstructured data. Elaborate the various criteria's based on which Big Data can be classified.

OR

10. Review the various features of big data security analytics.

Section C: Attempt all questions. [2×20=40]

1. Write short notes on:
 - a. Encryption techniques in big data.
 - b. Steps involved in big data analytics.
 - c. Big Data acquisition
 - d. Goals of big data.
2. In context to intellectual property. Explain the following:
 - a. Enabling business through intellectual property.

- b. Technology enabled IP management
- c. Applied analytics and transformational impact for business.

OR

- 3. Support the best practices in Big Data analytics, elaborating the following mentioned points.
 - a. Big Data privacy
 - b. Big Data visualization
 - c. Big Data pipeline in depth
 - d. In-memory processing

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Section A: Attempt all questions. [5×4=20]

1. Describe the importance of public importance.
2. List down the various goals that can be identified prior to big data evaluation.
3. Explain Security Business Analytics.
4. Briefly explain Hadoop.
5. Explain how big data analytics aids in cyber security and forensics

Section B: Attempt all questions. [4×10=40]

6. Summarize the various challenges that big data technology face. Also, identify the possible solutions to address these challenges.
7. Differentiate using examples, structured and unstructured data. Elaborate the various criteria, based on which Big Data can be classified.
8. Review the various features of big data security analytics.

OR

9. Summarize the traditional sources of big data and discuss the new growing sources of big data. Explain role of spunk in analysis of data.
10. Summarize the traditional sources of big data and discuss the new growing sources of big data. Explain role of spunk in analysis of data.

Section C: Attempt all questions. [2×20=40]

11. After the sources of data have been identified and acquisition of data is complete. Explain the phases that follow: (i) Building big data platform, (ii) Structured and unstructured data. Report the various factors affecting the storage in big data acquisition.
12. In context to intellectual property. Explain the following:
 - a. Enabling business through intellectual property.

- b. Technology enabled IP management
- c. Applied analytics and transformational impact for business.

OR

13. Write short notes on:

- a. Encryption techniques in big data.
- b. 4V's of Big Data
- c. Big Data acquisition
- d. Big Data Environment