

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Information Security Intelligence & Compliance Analytics

Semester: VIII

Program: B. Tech CSE+CSF

Course Code: CSIB448

Time 03 hrs.

Max. Marks: 100

Instructions:

SECTION A

S. No.	Section A carries 5 questions of 4 marks each.	Marks	
Q 1	Recognize the challenges that big data faces ahead as an open source technology.	4	CO1
Q 2	Identify the different teams that may exist within a big data paradigm.	4	CO2
Q 3	Describe the importance of public information and list few sources of public information.	4	CO3
Q 4	Outline how to secure big data.	4	CO4
Q 5	Highlight few worst practices that currently prevail in big data analytics.	4	CO4

SECTION B

	Section B carries 4 questions of 10 marks each and Q 8 has an internal choice.		
Q 6	Appraise big data technology as an open source technology and explain the advent of open source tools, hurdles and opportunities in big data processing	10	CO1
Q 7	Compare using example the structured data from unstructured data. Also elaborate the various strategies of data acquisition.	10	CO3
Q 8	Explain the process of big data classification. List down the various criterion of data classification. OR Reiterate the Big Data adoption process. Also, discuss the architecture of big data.	10	CO4 CO1
Q 9	Categorize the various roles that exist within a big data team and describe the various responsibilities of each role.	10	CO2

SECTION-C

	Section C carries 2 questions of 20 marks each. Q10 has an internal choice.		
Q10	Evaluate the role of big data in cyber security. Identify all the opportunities that big data analytics provides in establishing a secure cyber space. Assume a network of 15000 interconnected devices continuously sending and receiving data from outside world, assess the data which can be used to deploy strong cyber security measures.	20	CO4 CO3 CO1

	OR		
	<p>In context to intellectual property. Explain the following:</p> <ol style="list-style-type: none"> 1. Enabling business through intellectual property. 2. Technology enabled IP management 3. Applied analytics and transformational impact for business. 		
Q11	<p>Write short notes on:</p> <ol style="list-style-type: none"> 1. Big data visualization 2. Big Data Privacy 3. Hybrid approaches in data processing 4. Big data team goals 	20	CO2 CO3 CO1

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SECTION A

S. No.	Section A carries 5 questions of 4 marks each.	Marks	
Q 1	Briefly explain open source technologies citing example of Hadoop.	4	CO1
Q 2	Pen down the various roles of a data scientist.	4	CO2
Q 3	Build relation between big data, data mining and data analytics.	4	CO3
Q 4	Explain Security Business Analytics.	4	CO3 CO4
Q 5	Outline how to secure big data.	4	CO1

SECTION B

	Section B carries 4 questions of 10 marks each and Q 8 has an internal choice.		
Q 6	Elaborate the steps involved in securing big data. In context to information security list down the benefits of security analytics.	10	CO4
Q 7	Differentiate using examples, structured and unstructured data. Elaborate the various criteria's based on which Big Data can be classified.	10	CO3
Q 8	Explain the various phases involved in creating big data team. Identify the factors affecting network configuration manager.	10	CO2
Q 9	Highlight the importance of big data visualization. Explain few common platforms or strategies.	10	CO1 CO3

SECTION-C

	Section C carries 2 questions of 20 marks each. Q10 has an internal choice.		
Q10	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 (iii) Big data classification and data processing (iv) Big data visualization.	20	CO1 CO2 CO3 CO4
OR			

	<p>Write short notes on:</p> <ul style="list-style-type: none"> a) Encryption techniques in big data. b) 4V's of Big Data c) Big Data acquisition d) Big Data Environment 		
Q11	<p>In context to intellectual property. Explain the following:</p> <ul style="list-style-type: none"> a) Big data and compliance b) Enabling business through intellectual property. c) Technology enabled IP management d) Applied analytics and transformational impact for business. 	20	CO4 CO3 CO1