

Roll No.
SAP ID



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, July 2020
Open Book – Through Blackboard Learning Management System

Course: BTech CSE LLB
Programme: Information Security And Compliance Analysis
Course Code: LLBL 564
Time: 03 hrs.

Semester: 10th

Max. Marks: 100

Instructions:

As this examination is in open-book format, the students are expected to demonstrate a very high degree of Academic Integrity and not copy contents from resources referred. Instructors would look for understanding of the concept by the students and any similarity found from resources online/ offline shall be penalized in terms of deduction of marks and even cancellation of paper in requisite cases. The online examination committee of the School would also look for similarity of two answer scripts and if answer scripts of two or more students are found similar, both the answer scripts shall be treated as copied and lead to cancellation of the paper. In view of the aforesaid points, the students are warned that they should desist from using any unfair means.

All Questions are Compulsory
Answer each question in not more than 500 words

S. No.		Marks	CO
1	<p>Read the following case and answer the question given below:</p> <p>The Large Hadron Collider (LHC) is the world's largest and most powerful particle accelerator. It first started up on 10 September 2008, and remains the latest addition to CERN's accelerator complex. The LHC consists of a 27-kilometre ring of superconducting magnets with a number of accelerating structures to boost the energy of the particles along the way. Inside the accelerator, two high-energy particle beams travel at close to the speed of light before they are made to collide. The beams travel in opposite directions in separate beam pipes – two tubes kept at ultrahigh vacuum. They are guided around the accelerator ring by a strong magnetic field maintained by superconducting electromagnets. The electromagnets are built from coils of special electric cable that operates in a superconducting state, efficiently conducting electricity without resistance or loss of energy. This requires chilling the magnets to -271.3°C – a temperature colder than outer space.</p> <p><u>Question:</u> Why the conventional method of Data Base Management System was not fit for these kinds of experiments? Justify your answer, why we need something new and appropriate solution to meet the requirement?</p>	20	CO1
Ans.			
2	<p>Read the following passage and answer the questions given below:</p>	20	CO4

	<p>Google's DNASTack compiles and organizes DNA samples of genetic data from around the world to identify diseases and other medical defects. These fast and exact calculations eliminate any 'friction points,' or human errors that could be made by one of the numerous science and biology experts working with the DNA.</p> <p>“I never dreamed that in my own life time my own genome would be sequenced”.</p> <p style="text-align: right;">James D Watson</p> <p style="text-align: center;">Co-discovered the molecular structure of DNA</p> <p><u>Question:</u> How Google’s DNASTack a part of Google Genomics and others are able to fulfil the dream of Watson?</p>		
Ans.			
3	<p>Read the following passage and answer the questions given below:</p> <p>Big Data and Walmart can be synonymous in the sizes of them, as Big Data is as potential as Walmart and Walmart can be as big as big data. Today’s retail stores not only collect the customer data for share the offers and discounts of the products, but also to understand, integrate and interpret the customer information to exploit this data in the best way to promote their sales and revenue.</p> <p><u>Question:</u> With the help of the machine learning algorithms and statistical models for identification of the patterns; How Walmart made use of the analysis for forecasting, marketing, customer service, product offers and fraud detection, to exploit the benefits, like achieving competitive advantage, new revenue opportunities, increased profitability, increased customer service and operational efficiencies?</p>	20	CO2
Ans.			
4	<p>What is Data Science? Why the term “Data Science” is flawed but useful? Data market is not coming. There were already here....Explain</p>	20	CO1
Ans.			
5	<p>Hadoop: What it is, how it works and what it can do? Write any four challenges in terms of Big Data Analytics.</p>	20	CO3
Ans.			

I,, understand that submitting work that isn't my own may result in failure in this paper and I may also be subject to Disciplinary Proceedings as per the Academic Integrity policy of the University.