


Name: Enrolment No:			
UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2022			
Course: Information Security Audit and Monitoring Semester: XI th Sem Program: B.Tech. (CSE), LL.B (Cyber Law) Course Code: CLIR6003		Time : 03 hrs. Max. Marks: 100	
Instructions: <ol style="list-style-type: none"> 1. Answer all the questions from each section. 2. Figures to the right indicate marks. 3. Write Legibly. 			
SECTION A (5Qx2M=10Marks)			
S. No.		Marks	CO
Q 1.	CYBORG offers Internet monitoring solutions through deep packet inspection probes that can extract metadata of every traffic in terms of traffic violations, detect crowd formation, etc. What is meant CYBORG and its present need in the society for monitoring?	2	CO1
Q 2.	Define Mentoring and how does it differ from Auditing.	2	CO1
Q 3.	How to avoid or eradicate the information security threat and attack?	2	CO1
Q 4.	Define the term risk assessment.	2	CO1
Q 5.	What is the significance of cyber law with illustrations?	2	CO1
SECTION B (4Qx5M= 20 Marks)			
Q 6.	Write a short note on: Implementation of ISO27001 standard	5	CO2
Q 7.	Discuss the object and importance of Business Continuity and Disaster Recovery.	5	CO2
Q 8.	Explain the impact of auditing in controlling online fraud and the financial irregularities.	5	CO2
Q 9.	How does the ISMS implementation improve information security?	5	CO2
SECTION-C (2Qx10M=20 Marks)			
Q 10.	New developments in the field of AI and machine learning are changing the employment dimensions. The global AI market is close to several	10	CO3

	billions, and it is anticipated to increase consistently at a Compound Annual Growth Rate (CAGR). More recently, AI has begun to be used in legal field to predict legal outcomes, etc. The potential benefits of AI in the field of law are real and it avoids costly mistakes. Considering the above statement, explain the basic understanding of AI and Machine Learning, and how does it work in the Legal field in India.		
Q 11.	All companies who are subject to PCI DSS standards must be PCI compliant. The acquirer or payment brands may also choose to manually place an organization into a reporting level at their discretion. Based on this statement, what is meant by PCI-DSS? Explain the necessary control objectives and requirements in PCI DSS and how does it differ from the ISO standardization?	10	CO3
SECTION-D (2Qx25M=50 Marks)			
Q 12.	XY University is a leading university in the State of Guzu. The University has sanctioned office laptops to all its employees including 1500 faculty members. The IT administrators of XY University, while allotting the laptops to all the employees mentioned that the laptops be only used for official purposes; they be returned when the employees leave the organization and no software be downloaded on the laptops except with prior permission of the IT Department of XY University. In the recent times, several cases have come up where the IT Department has learnt about some pirated software being downloaded on laptops of some of the employees. This has led XY University to pay penalty to the original software companies. In addition to this, the use of certain software has also led to data leak from the laptops of certain faculty, and faculty members have complained that their original work created on the university laptop has been published by some other people and groups. Employees argue that they were continuously being prompted by certain websites to download this software. Considering the above, discuss the purpose and functions of IT Security Audit. Explain the technical, physical and administrative categories in IT Security Audit. How does it avoid improper information and secure certain information?	25	CO4
Q 13.	The organization 'PRD' is a newly established fintech firm, operating from Bangalore, India. 'PRD' is planning to open a new credit-cards operation. The planning and policy making are in testing phase for their operations. 'PRD' has approached you as a lead auditor. How would you breakdown their problem and which standards / certifications would you suggest them to get. Also, in near future they are looking forward to expand their customer base to UK. What changes and good practices would you recommend them to inculcate which would help them in smooth transition of their ventures.	25	CO4