

Name:	
Enrolment No:	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May,2020

Course: Information Security Audit and Monitoring

Semester: XII

Programme: B.Tech.LL.B. Cyber Law

Time: 03 hrs.

Max. Marks: 100

Instructions: Attempt all questions

		Marks	CO
	Write Short Notes on the followings: Answer in not more than 50 words.		
1.	Information Security Best Practice	5	1
2.	GRC- Governance Risk Compliance	5	1
3.	Importance of Auditing in the Information technology environment	5	4
4.	ISO 27001	5	2
5.	Who should comply with PCI DSS?	5	1
6.	Importance of Independent Auditor.	5	2
	Answer all questions: Answer in not more than 150 words.		
6.	Common security threats range from insider threats to advanced persistent threats, and they can bring an organization to its knees unless its in-house security team is aware of them and ready to respond. Information is always under threat, The heart of a cyber risk management program is an ongoing process of risk management. Explain what is ISRM and also state the importance of ISRM- Information security Risk Management Process.	10	3
7.	The planning and execution of an IT audit consists of the assessment and identification of IT risks in any organization.Usually,IT audits cover risks related to integrity, confidentiality, and availability of information technology infrastructure and processes. Some additional risks include efficiency, effectiveness, and reliability of IT. If risks are assessed, there can be clear vision on what path to take to transfer the risk through insurance, to reduce the risks through controls, or to simply accept the risk as part of the operating environment. An Information security audit is a systematic, measurable technical assessment of how the organization's security policy is employed. It is part of the on-going process of defining and maintaining effective security policies. In the light of the above statement give a brief description about the basic principles of auditing.	10	5

8.	<p>Certification is fundamentally about providing trust and confidence – and these can provide a competitive edge. In today’s world, our customers, business partners and shareholders want to be sure that you’re not putting them or their businesses at risk by not having appropriate safeguards in place around information and technology enabled business assets. With ISO 27001 you can demonstrate commitment and compliance to global best practice, proving to customers, suppliers and stakeholders that security is paramount to the way you operate. State the features of the ISO 27001 standards and mentioning some of the basic standards analyze its benefits.</p>	10	4
9.	<p>The National Cyber Security Strategy 2020 is being prepared to fill the gaps and meet the target envisaged in National Cyber Security Policy 2020. Analyze the role of the government of India in ensuring Cyber security through the National Cyber Security Policy Strategies. Mention some of the important strategies and critically analyze them.</p>	10	2
10.	<p>On the basis of the following circumstances mention if any offence has been committed with relevant section of IT Act 2000, also mention the penalty:</p> <p>A. If any person including an intermediary who, while providing services under the terms of lawful contract, has secured access to any material containing personal information about another person, with the intent to cause or knowing that he is likely to cause wrongful loss or wrongful gain discloses, without the consent of the person concerned, or in breach of a lawful contract.</p> <p>B. If a person knowingly or intentionally conceals, destroys or alters or intentionally or knowingly causes another to conceal, destroy or alter any computer source code used for a computer, computer programme, computer system or computer network, when the computer source code is required to be kept or maintained by law for the time being in force.</p>	10	4
	Answer all Questions: Answer in not more than 500 words.		
10.	<p>Cyberspace is a complex environment consisting of interactions between people, software and services, supported by worldwide distribution of information and communication technology (ICT) devices and networks. Owing to the numerous benefits brought about by technological advancements, the cyberspace today is a common pool used by citizens, businesses, critical information infrastructure, military and governments in a manner that makes it difficult to draw clear boundaries among these different groups. The cyberspace is expected to be more complex in the foreseeable future, with many fold increase in networks and devices connected to it. In the light of the growth of IT sector in the country, ambitious plans for rapid social transformation & inclusive growth and India’s prominent role in the IT global market,</p>	20	5

	<p>providing right kind of focus for creating secure computing environment and adequate trust & confidence in electronic transactions, software, services, devices and networks, has become one of the compelling priorities for the country.</p> <p>You are required to draft a Cyber Security Policy for your country mentioning the followings:</p> <ul style="list-style-type: none">• Name of the policy• Preamble• Mission and vision of the policy• Regulatory Framework		