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UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, December 2021

Course: IT Forensics and Electronic Evidence Law **Semester : IX**
Program: B.Tech.LL.B. Hons. Cyber Law **Duration: 03 hrs.**
Course Code: **Max. Marks: 100**

Instructions: Read the questions and instructions carefully and answer accordingly.

SECTION A

(Answer all Questions) 5Qx2M=10 Marks

Q. No.		Marks	CO
1	Define the term "electronic record" as defined in The Information Technology Act, 2000.	2	CO1
2	Define the term "data" as defined in The Information Technology Act, 2000.		CO1
3	What is a credit card fraud? What evidence is the most crucial in such kind of frauds?	2	CO1
4	What do you understand by the term mobile forensics?	2	CO1
5	What is a chain of custody form in reference to electronic evidence investigation?	2	CO1

SECTION B

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(Answer any 4 questions) 4Q x5M=20 Marks

Q. No.		Marks	
1	In the digital era where information is stored electronically and can be retrieved easily from various sources and these sources can be social networking websites etc. In the present scenario is it relevant that advocates or police should search social networking websites for electronic evidences. Explain.	5	CO2
2	What is a Hash Function? What is the importance of a hash function in the process of authentication of electronic record? Can this function be of any help in IT forensic?	5	CO2
3	What is a computer? Answer as per Definition given in the Information Technology Act, 2000. State whether the following devices are computer. Support your answer with case law. (a) Is Cell Phone a computer? (b) Is ATM a computer?	5	CO2
4	It is an era when now we can dream of a paperless world, support this statement in light doctrine of functional equivalence and explain how electronic evidence has taken over the traditional evidence in the courts of law.	5	CO2
5	Do you think that there are many hurdles in the field of Cybercrime investigations and Digital forensics? If yes, illustrate some of those challenges.	5	CO2

SECTION-C

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(*Answer all questions*) 2Qx10M=20 Mark

Q.No.		Marks	CO
1	Information can be retrieved through several mode and mechanisms for the purposes of IT forensics and electronic evidence for the purposes of investigation. List out some of the possible destinations where digital evidences can be found. Explain all in brief.	**10**	**CO3**
2	Digital evidence and the computers and electronic devices on which it is stored is fragile and sensitive. Considering this fact, the court in certain cases has prescribed special techniques/principles to be followed while dealing with electronic evidence. Explain, in the light of Dharambir v. Central Bureau of Investigation (148 (2008) DLT 289). Also explain, some good practices required to be followed while handeling electronic evidence so that its sanctity is not compromised.	**10**	**CO3**

SECTION-D

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(*Answer all questions*) 2Qx25M =50 Marks

Q.No.		Marks	CO
1	Few notorious people of Bidholi have robbed State Bank of Bidholi and the authorities have asked you to conduct an investigation of the crime scene and how robbery took place because the local police have informed that the thieves have used the latest technology to commit the offense. Local police have CCTV footage of the crime scene and suspicious email conversation between the manager of the bank and some anonymous guy where it clear that this guy through emails has collected the information about the manager and used that information to commit an online fraud on the Bank. As an IT forensics expert what should be your plan of action and from where you can collect electronic evidence to solve the case. Explain, as an expert all precautions you would take while collecting and analyzing such an evidence.	**25**	**CO4**
2	The CFSAP model provides a framework within which detailed individual forensic processes and procedures may be developed. It is of a sufficiently high level that it can be used to develop procedures for any of the different types of computer forensics. Explain with the help of a flow chart, the Computer Forensic- Secure, Analyze, and Present (CFSAP) Model of computer Forensics. Describe in detail the stages involved.	**25**	**CO4**