UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, April/May 2018

Course: Forensic Computing (CSCS7003) Program: M.Tech CSE Time: 03 hrs.

Semester: II

Max. Marks: 100

	SECTION A		
S. No.		Marks	CO
1	Write description for following file directories in Linux File System:	4	CO1 ,CO
	a. /		2
	b. /bin		
	c. /etc		
	d. /home		
2	Express your views about following (maximum 15 words for each):	4	CO1 ,CO
	a. Admissible Evidence		4
	b. Section 3 of Evidence Act		
3	Write the port numbers for HTTPS, SMTP, TELNET and FTP	4	C01
			,CO 2
4	Answer TRUE or FALSE with respect to registries in Windows OS:	4	C01
			,CO
	a. When a program is installed, a new sub key containing settings like a program's		2
	location, it's version, and how to start the program, are all added to the Windows		
	Registry.		
	b. Registry contains user who is currently logged into Windows and their settings.		
	c. Registry contains list of startup programs.		
	d. Registry records every SSID of every wireless network.		
5	Map the stages and their steps which are given in jumbled order:	4	CO1
	<u>Stages:</u> Investigation Preparation, Analysis of Evidence, Evidence Acquisition, Results		,CO
	dissemination		4,C
	<u>Steps:</u> identify resources required, preserve digital evidence, process data, interpret analysis results, present findings, report findings, identify source of digital evidence,		03
	identify the purpose of investigation, and identify tools and techniques to be used.		
	identify the purpose of investigation, and identify tools and teeninques to be used.		
	<i>Note</i> : Each stage may have multiple steps; your answer should have stages and steps in correct order.		
	SECTION B		1
6	Identify the process in the figure below (max 20 words). Explain the steps 1 to 4 in brief	10	C01
0	ruentity the process in the righte below (max 20 words). Explain the steps 1 to 4 in orier	10	,CO

	(max. 40 words). Server Client		2,C 03
	Port 21 Port 1026 Port 1027 Port 1027 Port 1027 Port 1027		
7	Let's say that the pixels before the insertion are: 10000000.10100100.10110101, 10110101.11110011.10110111, 11100111.10110011.00110011 11100111.10110011.00110011 What will be pixel values after the insertion of on [A] using LSB Algorithm?	10	CO1 ,CO 5
8	What will be pixel values after the insertion of an 'A' using LSB Algorithm?There are five logical root keys in the Windows Registry which are:1. HKEY_CLASSES_ROOT.2. HKEY_CURRENT_USER.3. HKEY_LOCAL_MACHINE.4. HKEY_USERS.5. HKEY_CURRENT_CONFIG.Fit them in the blank boxes to show relationship between windows registry root keys.	10	CO1 ,CO 2

	Windows Registry ? Hardware System Default Statistics ? ? ? ? ? ? ? ? ? ? ? ? ?		
9	Explain the working of Message/Mail User Agent (MUA), Message/Mail Store (MS), Message/Mail Submission Agent (MSA), Message/Mail Transfer Agent (MTA) and Message/Mail Delivery Agent (MDA) with respect to the Email Architecture.	10	CO1 ,CO 2,C 03, CO4
	SECTION-C		
10	Consider the following snapshot and answer the required questions: 02/07/2018 10:07 AM 210 \$I00TWXY.pdf 01/31/2018 12:28 PM 196 \$I08SUCB 07/16/2017 06:11 PM 116 \$I09GBWC.m3u 01/31/2018 10:26 AM 108 \$I0CTANU.docx 02/07/2018 01:29 AM 378 \$I0G7VCW.jpg 08/28/2017 02:35 PM 114 \$I0HD066.pptx 01/31/2018 01:36 AM 186 \$I0HVTFY.docx 02/07/2017 10:14 AM 42,374 \$R00TWXY.pdf 05/07/2016 07:01 PM ST \$R08SUCB 07/02/2017 06:17 PM 57 \$R09GBWC.m3u 01/31/2018 09:40 AM 15,387 \$R0CTANU.docx 02/14/2018 01:28 AM 31,321 \$R067VCW.jpg 08/23/2017 11:21 AM 304,947 \$R0HD066.pptx 01/31/2018 01:23 AM 3,628,528 \$R0HVTFY.docx	20	CO1 ,CO 2,C O3, CO4
	 What is shown in the snapshot above? How will you receive the list same as above in D: drive in your computer having windows 10 OS through command line? Write the command. Why there are 2 copies of every file in the snapshot? Is there any difference in \$I and \$R files? (maximum 40 words) 		

	 4. What does the six characters after every \$I and \$R means? (maximum 30 words) 5. Write the \$I format for Windows 10 OS? (answer in tabular format) 		
11	Consider a DC signal that is a constant 100 for domain [0, 7]. Calculate F (0) and F (1) for 1D DCT.	20	CO1 ,CO 2,C O3, CO4