National University of Computer and Emerging Sciences, Lahore Campus

	SOME SENERAL SERVICES OF SOME SENERAL SOURCE	Course Name:	Professional Practices in IT	Course Code:	CS 4001
		Degree Program:	BCS	Semester:	Spring 2023
		Exam Duration:	180 Minutes	Total Marks:	90
		Paper Date:	07-06-2023	Weight	40
		Sections:	ALL	No of Page(s):	9
		Exam Type:	Final	-	

Student : Name:_	KOII NO	Section:
Instruction/Notes:	Attempt all questions in the space given below. Write to the point.	

Question 1: Use the following list of terminologies to answer the following questions: [16]

-Exploit	-Patch	-Trojan horse	-Cracker	
-Zero Day Attack	-Worm	-Rootkit	-Industrial spy	
-Virus	-Distributed denial of	-Hacker	-Hacktavist	
-Spam	service (DDOS)	-Cybercriminal	-Cyberterrorist	
-Firewall	-Phishing	-Malicious insider	-Intrusion detection	
-Intrusion prevention	-Vishing	-Competitive	system	
system	-Security policy	intelligence	-Honeypot	
-Risk assessment	-Botnet	-Risk assessment	-Security policy	

- A) A virus does not spread itself from computer to computer but must be spread through infected e-mail document attachments, infected programs, or infected Web sites. True or False?
- B) An attack on an information system that takes advantage of a vulnerability is called a(n)Exploit
- C) A group of computers controlled centrally from one or more remote locations by hackers without the knowledge of their owners is called a(n) Botnet
- D) A set of programs that enables a hacker to gain administrative level access to a computer without the end user's consent or knowledge is called a(n): Rootkit

- E) Spam forces unwanted and often objectionable materials into e-mail boxes, detracts from the ability of Internet users to communicate effectively, and costs internet users and service providers millions of dollars annually.
- F) A person who attacks computers and information systems in order to capture trade secrets and gain a competitive advantage is called a cyberterrorist. True or False?
- G) To date, there are no documented cases of cyberterrorism. True or False?
- H) A type of attacker that is extremely difficult to detect or stop because he or she is often authorized to access the very systems being abused is called a(n) Malicious Insider
- I) Concern over potential cyberterrorism began well before the attacks of 9/11. True or False?
- J) Trojan horse involves the deployment of malware that secretly steals data in the computer systems.
- K) The process of assessing security-related risks from both internal and external threats to an organization's computers and networks is called a(n) Risk assessment.
- L) The written statement that defines an organization's security requirements as well as the controls and sanctions used to meet those requirements is known as: Security Policy
- M) Implementation of a strong firewall provides adequate security for almost any network.

 True or False?
- N) A device that works to prevent an attack by blocking viruses, malformed packets, and other threats from getting into the company network is called a(n): Intrusion prevention system
- O) Phishing is the act of fraudulently using email to try to get the recipient to reveal personal data.
- P) Andrew, a writer, noticed that his blog was filled with repetitive advertisements and surveys that prevented him from accessing his blog and editing an article.

 caused this problem

Question 2: Identify and briefly discuss two ways that the use of an effective software development methodology can protect software manufacturers from legal liability for defective software. [4 Points]

Reduces the number of software errors

If an organization follows widely accepted development methods, negligence on its part is harder to prove

Question 3: Your company is considering using N-version programming with two software development firms and two hardware devices for the navigation system of a guided missile. Briefly describe what this means, and outline several advantages and disadvantages of this approach.[4 Points]

Adv: Quality, Reliability, Fault tolerant.

Disadv: Cost

Question 4: Outline a scenario in which you might be acting ethically but might still want to remain anonymous while using the Internet. [2]

Depends on the answer.

Seeking help in online support groups

OR

Reporting defects in manufacturer product

OR

Taking part in sensitive discussion

Question 5: Do you think that a corporation should be allowed to use a subpoena to identify a John Doe before proving that the person has defamed the company? Why or why not? [4 Points]

The use of a subpoena to identify a person, such as John Doe, is a matter of **legal interpretation** and can depend on the specific circumstances of the case.

Allowed only if the company can convince courts about defamation.

Question 6: Let's imagine for a moment that you work as a loan officer in a big corporation with thousands of employees. You help people get financing for their dream homes. You've been with the company for over 5 years now and you have a couple team members that report to you. You're making good money but you want to get more out of life. Not only do you want to move up at the company, you also want to spend more time with your family and maybe even start a business on the side.

As you walk into your office, you grab a cup of match a tea (what every AE aficionado should have of course) and you're about to review what you're going to do that day. This is what your todo list looks like (in no particular order): [9 Points]

Important /	Important /
Urgent	Not Urgent
1	2
Not Important	Not Important
/ Urgent	/ Not Urgent
3	4

Task	Quadrant #
Call client Marissa re: mortgage options	1
Re-arrange my schedule and work hours for Johnny's (your son) soccer games	2
Watch NBA playoff game of LA Lakers vs Golden State Warriors	4
Show my new assistant Dawn how to research and book flights	2
Upload photos of my recent vacation with the wife on Facebook	4
Research options for coaching on my productivity	2
Put a proposal together for client Joe	1
Call back your friend Sally, who has been requesting to give her some loan related expert advice	3
Send HR the credentials of the staff working under you (requested by HR).	3

Question 7: Identify at least two short comings of utilitarianism theory. [4 Points]

It might be difficult or impossible to determine all the consequences of an act.

How to quantify utility?

Question 8: You work for Teamviewer Inc and your core team has developed the entire software. Your company is, at this stage, concerned about copyright infringements on different parts of your product. The team informs you that the software is a combination of: [8 Points]

Innovative video streaming algorithms_Patent / Copyright

P2P speed enhancement techniques already in use, Public Use

Programming hacks and implementation tricks your coders developed over the years,. Trade

Secret

General session maintenance tools and front-end graphics_Trade/Company Secret._

For each of the parts above, you have the choice to file a patent, register a copyright, keep it as a trade secret, or make it public for usage. Which one will you choose keeping in mind the company's profitability and constraints of each part?

Question: Encircle option(s) that apply [39 Points]

1)	You have Rs. 9,000 to deposit. ABC Bank offers 12 percent per year compounded monthly,
	while King Bank offers 12 percent but will only compound annually. In which bank will your
	investment be worth more in 10 years?

a) ABC bank

c) Both are equal

- b) King bank
- 2) Successful companies decide to issue more shares; these are often sold at more than their par value. The extra is known as the —-----?
 - a) Called up share capital

c) Working capital

b) Share premium

- d) Share Profit
- 3) What is the future value of Rs. 26 invested for 32 years at an average rate of return of 7%?
 - a) 226.60

c) 2.549

b) 832.0

- d) 268.6
- 4) You need two security guards for your company, what will be the preferred way to recruit:
 - a) One to one interviews

c) Outsource from agencies

b) Psychometric tests

- d) Interview with panel
- 5) Which of the following is not a potential reason of Takeover:
 - a) Expanding the customer base

c) Expanding its range of offerings

b) Acquiring new staff

d) To compete with the competitor

6)	Contracts serve the following purpose except:					
	a) Agreement b/w parties	d) Ways of termination of contract				
	b) Solution of patent infringement					
	c) matters arising while the contract is					
	running					
7١	_	music in his/her music video then could be				
′,	If a person uses someone's song as background music in his/her music video then could be an act a person is an example of:					
		a) Datant infringament				
	a) Copyright Infringement	c) Patent infringement				
	b) Trade secret	d) Trademark infringement				
8)	It is common practice for contracts to include a	statement that, in the event of a dispute				
	that cannot be resolved by the parties themselven	es, they agree to accept the decision of an				
	a) Court of law	c) Lawyer who wrote the contract				
	b) Independent arbitrator	d) Settlement courts				
9)	According to straight line method of providing of					
	a) Remains constant	c) Decrease each year				
	b) Increase each year.	d) None of them.				
	IT equipment's; you need to purchase some lap company. Therefore, you decided to give her a dexample of — a) Nepotism b) Cronyism					
11)	A consulting firm responds to customer issues a with the business environment. Consulting firm Which of the following model would be suited ta Bureaucratic Model b) Organic Model	s want to respond quickly to the customers.				
12)	An office secretary will now also welcome the origines her a welcome break in her daily work, as chat with new people. Which of following job cata) Job rotation b) Job enlargement	she likes to make people feel at home and				
13)	Suppose ABC Limited has Current Assets of \$10,00,000. Next, calculate the Working Capital of the company of the					

14) Build employer's skills to enable them to take on new duties is called.

6

a)	iraining	C)	Both a & b
b)	Development	d)	None of the above
•	ne system which is followed in organizations to di /some employees in organization is classified as	stril	oute some portion from profits to
<mark>a)</mark>	profit sharing	c)	broad banding
b)	gain sharing	d)	draw sharing
-	you write an original story, what type of intellect ho can make and sell copies of your work?	ual	property gives you the right to decide
a)	Copyright	c)	Patents
	Trade secret	ď)	Trademarks
in a)	nagine a sports team sets up a company to sell its tellectual property can the team use to show tha Copyright Patents		_
	uman resource management is concerned with _		?
<mark>a)</mark> b)		<mark>c)</mark> d)	Law None of the above
5)	Employer	u,	None of the above
-	ne professional bodies usually start by a group of	-	
	me type of activity. Which of the following feature		
-	ablishing a code of conduct to regulate the way r		-
	ssional lives and a disciplinary procedure to discip		
B) Est	ablishing mechanisms for disseminating knowled	ge (of good practice and new
devel	opments to its members, typically through public	atic	ons and conferences but increasingly
also w	rith the World Wide Web.		
C) Set	ting standards of education and experience that	mus	st be met by people wishing to
becor	ne members of the body.		
•	vising government and regulatory bodies about r		•
	Both (A) and (D)	c)	None of the above
b)	All of the Above		
so kid W	onsider a case: Trevor is an employee in a software fitware business, and for that, he discusses his plack-start. During this phase, he accidentally reveal here he is working as an employee, without the pack (British Computer Society) code of conduct has	ans s co pern	with his friends, so he can get a infidential information of his company nission of his boss. Which section of
	The public interest	e)	Status of professional code and
<mark>b)</mark>	<u>, </u>		conduct
c)	, .		
a)	Professional Competence and Integrity		
	IIILEKIILV		

21) In companies, the stakeholders can be directors, where the business is usually not working				
on a large scale. <mark>a) True</mark>	c) The statement above is invalid.			
b) False	c) The statement above is invalid.			
s, ruise				
22) Companies, where the owners are person	ally liable for all the company's debts are which			
types of companies?				
a) Public	c) Private			
b) Limited	d) Sole traders			
23) Employee in a company carry out job deperation. 1. how well they understand what is not a second control of the control o				
2. their ability	equired of them			
3. the quality of the facilities provided	for doing the job			
4. their motivation, that is how well to				
5. the attitude of their colleagues	ney want to do the job			
Consider a case:				
	ear, ambiguous or incomplete. Anyone who asks for			
•	ith the spec you've got". Because of the habit of			
•	assumption that people are all the same. The result			
_	thematics is writing the report generation module			
-	ess Studies is struggling with a module to calculate			
-	erminals, connected to an overloaded mainframe,			
_	olon key on one of the terminals works only			
	ngle large room in a converted aircraft hangar. A			
	yees pay great attention to it, in order to maximize			
	tion at coffee breaks is the appointments pages of			
-	pays competitive salaries, at least once a month			
there is a leaving party for a member of the	he team. No one shows any interest in what the			
software is for. The company has tried hard	to recruit good programmers and, when they first			
join the project, new recruits seem to perf	orm very well but, after three months, they are			
indistinguishable from their colleagues.				
If poor quality of software coming from the t	eam, which factors mentioned above, can be the			
reason(s):				
a) Both (1) and (2)	d) (3), (1) and (2)			
b) (4), (3) and (1)	e) (3), (5) and (4)			
c) (5) only	of (e)) (e) and (f)			
24) Copyright and related rights protection is	an essential component in fostering human			
creativity and innovation	an establish component in rostering naman			
a) TRUE	b) FALSE			
<u></u>	, and the second			
25) General guidelines of computer ethics are needed for				

•	Protection of personal data	-	All of these
a)	agiarism is? Turning in someone else's work as your own Copying words or ideas from someone else without giving credit		Failing to put a quotation in quotation marks All of these
a)	ftware can be protected by Trade Mark Design Registry		Copyright Patent
28) Th	e look of the product may be registered in the		
a) <mark>b)</mark>	Copyright Trademark	,	Patent Designs Registry
a)	e name under which a product is sold may be re Copyright Designs Registry	c)	ered as a <mark>Trademark</mark> Patent
	is defined as a group of p Rout line Organization	c)	le working together to created profit System Military
a)	e quest to maximize the profitability should be c Ethical Obligations Unethical Obligations	c)	trained by: Stakeholders Lack of social responsibility
a)	sting decision-making authority in lower-level m Decentralization Centralization	c)	gers or other employees is called: Localization Distributed authority
-	e business plan is a document that explains the perfection of the following features should be included in a busing		
	 Technical feasibility Time period to return the money Assessment of competition Grants/loans Sale of equity 		
a) b)	Both (1) and (3) (1), (2) and (4)		(3), (2) and (5) Both (1) and (3)

_ 1) All	- C	11	- 1-	
Δ	1 ДП	\cap T	Tna	าวท	$\cap \cup \triangle$
L	/ /	Oi	UIIC	ab	OVC

34)	of the a) O	k the users who visit your website for consent e following option is applicable pt-in pt-Out		tore cookies on their device. Which Both a & b
35)		npany has decided to invest in outer shape des ime produced by them, which is distinctive, an	_	
	a) C	opyrights	c)	Patent
		rade mark	,	Industrial designs
36)		inauthorized copying of personal computer so ng of software among friends comes under	ftwa	are for use in the office or at home or
	a) Pi		c)	Trade secret
37)	5x-[ently, XYZ Corporation has \$2,000,000 of equity \$10,000,000 (total liabilities) divided by \$2,000 corporation definitely would be considered as		• • • •
		ighly geared.	b)	Low geared
38)		h of the following model has the characteristic authority"	s of	" Emphasize on expertise rather
	a) O	<mark>rganic Model</mark>	c)	Matrix Model
	b) N	lechanistic Model	d)	Bureaucratic Model
39)		eposited Rs. 2,500 in an account that pays 6% sat the end of 3 years?	imp	ble interest. How much money will he
	a) 2,		c)	3220
	b) 2		ď)	3950