TT	#02	Course: Information and Network Security (SWE 429)	Marks: 20	Time: 40 mi	
1.	Write	down the details of the following security principles: Separation of Principles Recording.	ivilege, Least Pri	vilege, and (4.	
2.	43·t=	d an inverse for 43 modulo 600 that lies between 1 and 600, i.e., find an $\pmod{600}$. [3.5] and $\binom{3^{100}}{mod\ 101} = ?$ [2] $\alpha^{p-1} = 1 \pmod{p}$	n integer 1≤t≤600	O such that (5.	
3.	I) Wh II) Ag	Q are two prime numbers. P=7, and Q=17. Take public key E=5. If plant will be cipher text value according to RSA algorithm? [4] ain, calculate plain text value from cipher text. [4] ove the correctness of the RSA algorithm with the help of mathematical		then (10	
1				ka wa k	
	TT#0	Course: Information and Network Security (SWE 429)	Marks: 20	Time: 35 mins	
	 Define the following terms: Repudiation, Uniticity distance, Pretexting attack, DDoS Explain how the key exchange happens between two parties who are using the Symmetric Cryptosys 				
	3. "(Cryptographic digest of a message(with just hashing the plaintext while gene e sender ensures the integrity and authenticity of the message from MITM.'	erating a digital si ' - Is the statemen	gnature) from (8	

Time: 40 min

TT#02(L)	Course: Information and Network Security (SWE 429)	Marks: 20	Time: 30 m	ins
2. I) What	own the details of the following security terms: Chosen-plaintext an appromise recording. is the CFB(Cipher Feedback) mode of operation in cryptography?		, ,	(4.5)
II) Write	e down a short note on the RSA security mechanism. [4]	7.5+4+	1=15.5	(8)
I) What	are two prime numbers. P=3, and Q=11. Take public key E=3. If to 1 in binary format, then will be the cipher text value(in decimal) according to the RSA algor, calculate the decryption key for the given context. [3.5]		sage is	(7.5)

SPM; TT#1; 2024; Time: 30 min; Marks: 10

What is contract management? 1

What is a Product Breakdown Structure (PBS)? Show the hierarchical diagram of a sample PBS. 4

3. What are the activities covered by project management? Explain. 3

4. What are called "free floats" and "interfering floats"? How are they calculated? 2

SPM; Marks: 10; Time: 30 Minutes; Ct#3

1. Discuss leadership styles in software project management. How do different leadership approaches affect project success? -

2. Discuss in the detail challenges of managing people in software projects. How can stress and conflict be effectively managed?

		Course: SWE 431 Course Title: Human Computer Interaction Time: 40 minutes Total Marks: 20	
	I.	Answer the following questions	
0	القر	Mention two ways your design can match users' expectations (mental models). Give an example for	2.5
5	by	List two pitfalls to avoid during ideation sessions and explain why.	-
	c)	Give one example of a UI metaphor and justify how it aids learnability.	2.5
	d)	With one example for each, define the gulf of execution and the gulf of evaluation Mention one design principle that can help to reduce each of these gulfs.	2.5
	e)	Nielsen's 10 usability heuristics are widely used principles for evaluating user interfaces. I. Briefly list any six of Nielsen's heuristics. (6 marks)	10
		II. Draw one real or hypothetical software interface) (e.g., a mobile app, website or desk program) and analyze how it supports or violates two of the heuristics you listed (4 mark)	ks)

Define HCI.

What are the principles of HCI? What are the challenges of good HCI design? Explain with examples.

What is thematic analysis?

What is a mental model? How is it developed?

6)

You are a user of a task scheduling app. You currently use an app to organize your daily tasks, but you've been struggling to stay on top of them because you forget or miss important reminders. You've heard about a new version of your app that includes an improved task reminder feature—so now, you want to explore the app's new functionality and see if it will help you stay more organized. Create a Customer Journey Map.

Deep Learning

TT #01

How Deep Learning Clopks? Give the Flow Diagram and Emplain every step. (10).

TT#02

Draw the figure of Transformer's Encoder Decoder Architecture. Shortly explain it. (10)

- (णापन कमा अन्य निष्ध ग्राथमाभ , जानामाला अस्ति,
- दाश्चू प्रगाष कार्य नित्त TT कार्य Diagram व्यंक्ट्र पित्यन Xm Hall a aहम एवा प्राष्ट्रेंग वाल व्यापायि उरेशोरे नित्यन प्रित प्रगाव। कि व्यामानिक्सणः!

- Mohammad Emman (Low CGian)