

a. Antivirus

COMSATS University Islamabad, Lahore Campus Department of Computer Science

Terminal Examination -Fall 2021

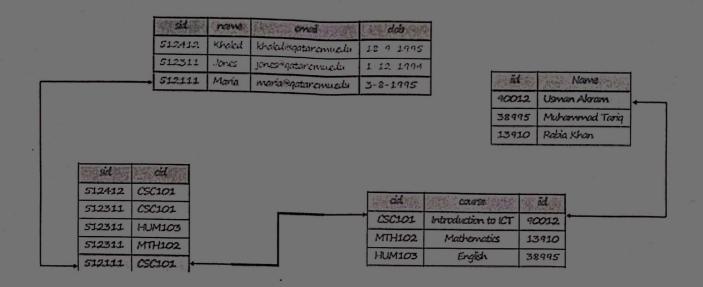
Introduction to ICT			Course Code:	CSC-101	Credit Hours:	3(2,1)	
Mr. Zuhair Qadir, Dr. Jawad Shafi, Miss. Saman Safdar, Mr. Tahir Muhammad			Programme Name:		BSE / BSCS		
1 st	Batch:	FA21	Section:			Time	3 Hour
()6 - Janı	iary - 202	2	Maximum Ma	rks:	360 m 12 35 13 1	50
				Reg. No.			
Name: Important Instructions / Guidelines:							
Cheating or use of unfair means will lead to F in the course. Has of calculators or electronics are not allowed.							
Answer all questions on the answer sheet please!							
	Mr. Zuhair (Saman Safd 1st ctions / Guid or use of unfolculators or eall questions	Mr. Zuhair Qadir, E Saman Safdar, Mr. 1st Batch: 06 - Janu ctions / Guidelines: or use of unfair mean liculators or electronicall questions on the a	Mr. Zuhair Qadir, Dr. Jawad Saman Safdar, Mr. Tahir Mul 1st Batch: FA21 06 - January - 202 ctions / Guidelines: or use of unfair means will lead all culators or electronics are not a sall questions on the answer she	Mr. Zuhair Qadir, Dr. Jawad Shafi, Miss. Saman Safdar, Mr. Tahir Muhammad 1st Batch: FA21 Section: 06 - January - 2022 ctions / Guidelines: or use of unfair means will lead to F in the coalculators or electronics are not allowed. all questions on the answer sheet please!	Mr. Zuhair Qadir, Dr. Jawad Shafi, Miss. Saman Safdar, Mr. Tahir Muhammad 1st Batch: FA21 Section: 06 - January - 2022 Maximum Ma Reg. No. ctions / Guidelines: or use of unfair means will lead to F in the course. cliculators or electronics are not allowed. all questions on the answer sheet please!	Mr. Zuhair Qadir, Dr. Jawad Shafi, Miss. Saman Safdar, Mr. Tahir Muhammad 1st Batch: FA21 Section: 06 - January - 2022 Maximum Marks: Reg. No. ctions / Guidelines: or use of unfair means will lead to F in the course. cliculators or electronics are not allowed. all questions on the answer sheet please!	Mr. Zuhair Qadir, Dr. Jawad Shafi, Miss. Saman Safdar, Mr. Tahir Muhammad 1st Batch: FA21 Section: Time 06 - January - 2022 Maximum Marks: Reg. No. ctions / Guidelines: or use of unfair means will lead to F in the course. llculators or electronics are not allowed.

1: O	bjectives. Circle the correct answer. [Total Ma	rks = 1	5]
a)	True or False	[Mark	s = 5
1.	A computer virus can only be transferred to another computer via a storage medium.	T	F
2.	Secure Web pages use encryption to securely transfer data sent via those pages.	T	F
3.	We can use Do-While instead of While loop.	T	F
4.	Dry run gives us the state of variables at each statement of code.	T	F
5.	Pseudo code/flow charts increase understanding of the processes they represent.	T	F
b)	MCQs:	Marks	= 10]
1.	Which of the following act as middleware in database?		
	a. JavaScript c. MS Access		
	b. Oracle Database d. SQL Server		
2.	A behavioural approach to determine if computer is intelligent		
	a. Turing Test c. Turning Test		
	b. Tuning Test d. None of the above		
3.	work better in recognition tasks.		
	a. Human c. Machine		
	b. Computers d. None of these		
4.	is a type of software that can be installed on computers, and which collects	small	pieces
	of information about users without their knowledge.		

c. Firewall

		Axon	d. Spyware
5.	The bra	anch of computer science which deal with writing computer	programs that can solve problems
		ely, is called	
	a.	Cloud computing	c. Artificial Intelligence
	b.	Cyber security	d. Image processing
6.	Which	of the following is the protocol used to transfer data over th	ne Internet?
	a.	Wi-Fi	c. Bluetooth
	b.	TCP/IP	d. All of these
7.	Sendin	g an e-mail that looks like it came from someone else in ord	ler to obtain information for
	fraudu	lent purposes is called.	
	a.	Hacking '	c. Online auction fraud
	b.	Phishing	d. Spoofing
8.	Router	is used for	
	a.	Forwarded data on internet using fastest available path	c. Backup server
	b.	Connect computers so they can store data	d. None of these
9.	Funda	mental and distinguish component in database is	
	a.	Data	c. Information
	b.	Entity	d. Metadata
10	. Crypto	graphy is a study of	
	a.	A scheme of encryption/decryption	c. Attacks
	b.	Spyware and firewall	d. Ciphers
Q 2: D)raw dia	gram of Basic Organization of a computer system	[Marks = 4]
9-0		nary Code for the word "ACE" in ASCII-8 (8-bit code).	
		tes are required for its representation? ve following decimal values: 65, 67 and 69, respectively.	[Marks = 3]
Q 4: 2	a) Write	four database design models.	[Marks = 2+4 = 6]
Sr No	<u>o</u>	Design model name	
1			
2			
3			
4			
			Action 1997

b) Explain in detail the working of the model represented by following diagram.



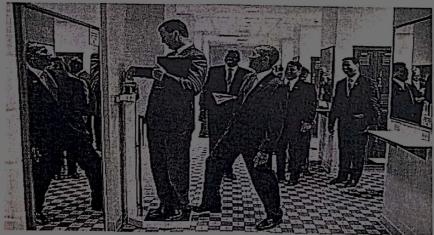
Q 5: Compute the following conversions among different number systems, and fill the table [Marks = 6]

Decimal	Binary	Octal	Hexadecimal
222	3)	Language	
	1011		
		171	
	•		AF1

Q 6: Consider the current breakthroughs in Artificial Intelligence and the image given below.

Briefly describe the following:

[Marks 9]



a. What AI can tell in this picture?

[Marks = 3]

[Marks = 3]

b. What humans can perceive in this picture.

c. In the current era humans are continuously being replaced by the machines. Here the question arises also that "Can a machine think". To answer this question an approach was suggested to determine whether a computer can think or not. Name the approach and how it is used to identify machine intelligence?

[Marks = 3]

Q7: Write Pseudocode and algorithm for the following problem statement:

[Marks = 7]

"Print the tables of 3 and 6 only up to 10 using loops. Count the number of times multiplication is done and display the sum of overall multiplication for each case 3 and 6"