Q. Code:514589

Reg. No.							

B.E./ B.TECH. DEGREE EXAMINATIONS, MAY 2023

Second Semester

IT22252 – COMPUTER APPLICATIONS AND PYTHON PROGRAMMING

(Information Technology)

(Regulation2022)

	(Regulation2022)		
TIME:1 HOUR 30 MINUTESMAX. MARCOURSESTATEMENT) RBT
	INSE STATEMENT OMES		LEVEL
CO 1	CO 1 Understand the characteristics and data processing methodologies of a computer.		2
CO 2	Analyze various network components and their underlying terminologies.		4
CO 3	Understand the recent advancements in computers.		2
	PART- A (10x2=20Marks)		
	(Answer all Questions)		
		СО	RBT
			LEVEL
1.	Convert 4 Tera byte to its equivalent Mega and Kilo bytes.	1	2
2.	Your organization requires a system for online ticket booking and payment processing	1	2
	system. Which type of computer is suitable for the same?		
3.	Convert the following octal number to its equivalent hexadecimal number: 1067420	1	2
4.	Convert the following hexa decimal number to its equivalent binary number: 1A203DC	1	2
5.	Calculate the time required in minutes to transfer a 4Gb from one ship to another ship	2	3
	using wide band connection of 4Mbps.		
6.	Distinguish between MDA and MTA.	2	4
7.	Compare guided medium and unguided medium.	2	4
8.	Generate the Key matrix for playfair cipher for the keyword: TECHNOLOGY	3	2
9.	Predict the last digit in the given IMEI number: 490154203237518	3	2
10.	Illustrate how passwords are stored in the system.	3	2

PART- B (2x 10=20Marks)

		Marks	CO	RBT
				LEVEL
11. (a)	Discuss in brief about various classifications of computers.	(10)	1	2
	(OR)			
(b)	Illustrate about the memory hierarchy in Computers.	(10)	1	2

12. (a)Illustrate and compare various configurations of Firewall with its relevantQ. Code:51458912. (a)Illustrate and compare various configurations of Firewall with its relevant(10)32applications.

(OR)

(b) Exemplify the working of Bluetooth and GPS in a Mobile device with (10) 3 2 necessary architecture.

PART- C (1x 10=10Marks)

(Q.No.13 is compulsory)

		Marks	CO	RBT
				LEVEL
13.	You are the network administrator of the lab which contains 20 systems.	(10)	2	4
	Illustrate about various topologies how these systems can be connected			
	within the lab premises with necessary calculations of cables and I/O device			
	requirements.			
