CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

Term-End Examination June, 2012

CIT-001 : FUNDAMENTALS OF COMPUTER SYSTEMS

SYSTEMS								
Time	: 2 P	iours		Maximum Marks : 50 (Weightage : 75%)				
Note		-	n No.1 is compulsory . Attempt any s from the remaining.	four				
1.		h objec Diffe by a (i) (ii) (iii) (iv)	e following objective type questions. tive type question carries one mark. erent computers are connected to LAN Cable and Modem NIC Special wires Telephone line operation of a digital computer is based	10				
		(i) (ii) (iii)	Counting Measuring Electronic Logical					

- (c) Most of today's Computer designs are based on concepts developed by :
 - (i) John Von Neumann
 - (ii) Charles Babbage
 - (iii) Harvard Mark
 - (iv) Bill Gates
- (d) Which of the following hardware device is not used in LAN?
 - (i) Computer
 - (ii) Modem
 - (iii) Printer
 - (iv) Cable
- (e) The inventor /s for RSA algorithm for encryption is/are:
 - (i) Ronald Rivest
 - (ii) Adi Shamir
 - (iii) Leonard Adelman
 - (iv) All of the above
- (f) Which of the following is not performed by anti-virus softwares for curing?
 - (i) Prevention
 - (ii) Vaccination
 - (iii) Detection
 - (iv) All of the above one performed

(g)	is not a function of basic operating					
	system.					
	(i) File Management					
	(ii) Disk Management					
	(iii) Process Management					
	(iv) Translation					
(h)	DDL stands for :					
	(i) Data Design Language					
	(ii) Data Dictionary Language					
	(iii) Data Definition Language					
	(iv) None of the above					
(i)	Which of the following has fastest data					
	transfer ?					
	(i) Coaxial Cable					
	(ii) Twisted Pair					
	(iii) Optimal Fiber					
	(iv) Air					
(j)	Which of the following is not a display					
	device?					
	(i) Cathode Ray Tube					
	(ii) Liquid Crystal Display					
	(iii) Projection Device					
	(iv) Anode Ray Tube					
Wha	t is Boot Injector? Explain how it affects th	e				
system file. Also, explain how it can be						
	ented?	_				
1 -						

5

5

Draw and explain the Flow Chart for generating

the odd numbers in the given range of numbers.

2.

3.

4.	(a)	Explain the functions of TCP/IP layers.	8	
	(b)	What is function of Program Counter?	2	
5.	(a)	Explain the different kinds of threats affects network security.		
	(b)	Consider the following relations with primary key under lined. Draw the ER diagram for this Data base. Manager (Mag -id, Mag -name, Mag-tel, Mag-Address, Mag-designation) Software Engg. (Engg-id, Engg-name, Engg-tel, Engg-address, Project-ID, Mag-id) Project (Project-ID, Project-Name, Mag-ID)	5	
6.	(a)	Discuss the basic Network topologies with	6	
	4.	their advantages and disadvantages.	4	
	(b)	What is operating system? List out the goals of an operating system.		
7.	(a)	Differentiate between simplex, Half duplex and Full duplex. Also, give an example of each.		
	(b)	Write a short note on the following: (i) Cache Memory (ii) FDDI	4	