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CIT-001

CERTIFICATE IN INFORMATION TECHNOLOGY (CIT)

00483

Term-End Examination June, 2015

CIT-001 : FUNDAMENTALS OF COMPUTER SYSTEMS

Time: 2 hours			Maximum Marks : 50		
		<u> </u>	· · · · · · · · · · · · · · · · · · ·	(Weigh	ntage 75%)
	•		compulsory remaining.	. Attempt	any four
Ea			ng objective t pe question		
(a)	sign		_ is a cable		
	(i)	Register			
·	(ii)	Bus			

Multiplexer

Interface

(iii)

(iv)

(b)		memory is used to increase the
	spee	d of processing by making current
	prog	rams and data available to the CPU at
	a rap	oid rate.
	(i)	RAM
	(ii)	ROM
	(iii)	Cache
	(iv)	Magnetic tape
(c)	A gro	oup of 8-bits is known as
	(i)	word
	(ii)	byte
	(iii)	nibble
	(iv)	kilobyte
(d)	The store	information which is permanently ed in a ROM chip is called as
	(i)	hardware
	(ii)	software
	(iii)	firmware
	(iv)	application software
(e)	Oper	rating System (O/S) is a
	(i)	system software
	(ii)	application software
	(iii)	utility
	(iv)	accessory

(£)	The processing system in which the jobs
(f)	are bundled together along with the
	instructions necessary to allow them to be
	processed without intervention is called as
	processing system.
	(i) batch
	(ii) serial
	(iii) spooling batch
	(iv) multiprogramming
(g)	Medical devices, industrial control systems
	and flight controlling systems use
	(i) Time sharing O/S
	(ii) Network O/S
	(iii) Batch O/S
	(iv) Real time O/S
(h)	The process of converting binary signal to
	analog signal by a modem is called as
	(i) Modulation
	(ii) Demodulation
	(iii) Transmission
	(iv) Compression
(i)	We prefer computer networking for the
	reason(s)
	(i) Resources sharing
	(ii) Scalability
	(iii) High reliability and expenditure

saving
All of the above

(iv)

	(j)	The aim(s) of information security is /are	
		(i) Integrity	
		(ii) Confidentiality	
		(iii) Availability	
		(iv) All of the above	
2.	whic	and describe briefly the types of threats ch can breach the network security of an nisation.	10
3.	Compare the following storage devices w.r.t. the parameters like capacity, advantages, disadvantages and storage mechanism:		
	(i)	Hard disk	
	(ii)	CD-ROM	
	(iii)	Magnetic tape	
	(iv)	Pen drive/Flash drive	
4.	(a)	List and describe the classification of printers on the basis of quality.	5
	(b)	Explain the following types of operating systems briefly. Also give two applications which use these O/S.	5
		(i) Batch O/S	
		(ii) Network O/S	

5.	flow	te an algorithm and draw the corresponding chart to find the average of a list of "n" bers given as input.	10
6.	(a)	Write a program in C language to check whether a given number is odd or even.	5
	(b)	Describe the mechanism of Asymmetric key encryption system.	5
7.	(a)	Discuss bus topology with the help of a neat diagram and list its advantages and disadvantages.	5
	(b)	List and describe any five network applications.	5