

RB-16033]

RB-16033 Seat No._____

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B. C. A. (Sem. I) Examination March / April - 2011

Computer Fundamental & Emerging Technology

Time	e : 3	Hour	rs] [Total Marks:	100
1	(a)	(i)	wer the following questions: (any three) What is operating system? Explain function of an operating system in detail.	20
		(ii)	List the different language translators. Explain any one in detail.	
		(iii)	Draw block diagram of computer system. Explain each functional unit in brief.	
		(iv)	List different storage devices. Explain any direct access storage device.	
2	(a)	Do fe	ollowing conversion :	10
	` /	(i)	$(110011)_2$ - $(101)_2$ using 2's complement method.	
		(ii)	$(5AD2)_{16} = ()_2$	
			10110 + 101011 =	
		(1V)	Subtract 11101 from 100101 by using 1's complement.	
		(v)	Obtain BCD code for "GEMINI".	
	(b)	` ′	ver the following questions: (any two)	10
	Ì	(i)	Describe: TCP/IP	
		(ii)	Explain: Cache Memory	
		(iii)	Explain: Virus	
3	(a)	Com	pare and contrast the followings:	10
		(i)	SRAMs v/s RAMS	
			±	
			Micro computer v/s Mini computer	
		, ,	Dot Matrix printer v/s Ink-jet printer	
	<i>(</i> 1-)	, ,	Latency time v/s Seek time	10
	(b)		the full form : (any ten) ALU	10
		(i) (ii)	ENIAC	
		(iii)	EBCDIC	
		(iv)	ULSI	
		(v)	OCR	
		(vi)	DVD	

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- (vii) PROM (viii) RAM (ix) EMR (x) WORM (xi) NIC (xii) WAN.
- 4 Answer the following: (any four)

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- (i) Describe: Cell Phone Frequency and Cell Phone Network.
- (ii) Explain Bluetooth technology.
- (iii) Write definition of compiler, Interpreter and assembler.
- (iv) Explain 1's complement and 2's complement with example.
- (v) Write a note on Wi-Fi Technology.
- 5 Write short notes: (any four)

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- (i) Various communication ports
- (ii) Subtract (55) 10 from (60) 10 by using 2's compliment.
- (iii) GPS
- (iv) GIS
- (v) MICR.

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