STELLA MARIS COLLEGE (AUTONOMOUS), CHENNAI – 600 086 (For Candidates admitted during the academic year 2011-12 and thereafter)

				SUBJECT COL	DE: 11CS/MC/CN34				
		B.C.A. D	EGREE EXAMINAT THIRD SEM	TON – NOVEMBER 20 IESTER	15				
			REG. NO)				
COURSE PAPER TIME		: COMPUTI	DAMENTALS MAX. MARKS: 20						
		ANSV e questions: prrect answer	WER ON THE QUES	'ION – A TION PAPER ITSELF	20*1=20				
1.	1. There is for Input Y to generate its complement Y'								
	a. An	d	b. inverter	c. OR	d. And, OR				
2.			is a primary memory	/.					
	a. RAN	1	b. ROM	c. Disks	d. None				
3.	The ou	tput of OR ga	te is 1 if inputs are						
	a. 0		b.1	c. both					
4.	A 32-b	A 32-bit word computer memory is made up of							
	a. 8by	/te	b.2 byte	c. 4 byte	d. 32 byte				
5.	(F3) ba	use 16=(?) bas	e 10						
	a. 234	1	b. 324	c. 243	d. 233				
6.			_instructions use an imp	plied accumulator.					
	a. Th	ree address	b. zero address	c. Two address d	. One address.				
7.	The program that accepts source program and produces object program is called								
	a. Lin	ker	b. Compiler	c. Interpreter	d. Assembler.				

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8.		transfer needs control signal to be transmitted between the							
	communicating units.								
	a.	Asynchronous data	b.DMA	c. Direct	d. I/O				
9.	An	An address in main memory is called							
		Logical address Physical address		b. Virtual addressd. address space.					
10	•	is needed for storing bootstrap loader.							
	a.	ROM	b.RAM	c. Cache	d. all				
Fill in	the	blanks:							
11	. Th	e result of operation (-	+6-13) using signed	two's complement is _					
12	. PR	OM means							
13	. Th	e instruction format ha	as,	and	fields.				
14	. (x')'=							
15	. Inp	out, output devices atta	sched to the compute	ers are called					
16	. In _.		more than two sp	ecific devices share a s	ingle link.				
17	. AF	RPA stands for		-					
18	. In	a star topology the cer	ntral controller is cal	led	·				
19	•		is a sub tree of	domain name space.					
20	. In		transmission bit	s are transmitted contin	nuously.				

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B.C.A. DEGREE EXAMINATION – NOVEMBER 2015 THIRD SEMESTER

COURSE: MAJOR COREPAPER: COMPUTER ORGANIZATION AND NETWORK FUNDAMENTALSTIME: 2 HOURS & 30 MINUTESMAX. MARKS: 80

SECTION-B

Answer ALL the questions:

1. Write a short note on compiler.

- 2. Define Exclusive-NOR.
- 3. State baud rate.
- 4. Draw block diagram of ROM.
- 5. Differentiate analog and digital signal.

SECTION-C

Answer any EIGHT questions:

- 6. Differentiate RISC and CISC.
- 7. Brief on assembly and high level language.
- 8. Write a note on different output devices.
- 9. Explain about memory representation.
- 10. Explain about different logical gates.
- 11. (a) Convert F3A7C2 to binary and octal(b) Convert 1938 to hexadecimal
- 12. Explain in detail about mapping in virtual memory.
- 13. With block diagram, explain Asynchronous Communication Interface.
- 14. With diagram explain star and mesh topology.
- 15. Discuss on local area network.

SECTION-D

Answer any THREE questions:

- 16. Explain about assembler and Linker.
- 17. Give clear sketch about computer memory.
- 18. Explain about various instruction formats and different addressing modes.
- 19. Discuss on Direct Memory Access.
- 20. Discuss on various connecting devices used for networking.

3*10=30

5*2=10

8*5=40