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

SUBJECT CODE: 11CS/MC/CN34

B.C.A. DEGREE EXAMINATION – NOVEMBER 2013 THIRD SEMESTER

		REG. NO.				
COURSE PAPER TIME	: COMPUTER OR	GANIZATION AND	N AND NETWORK FUNDAMENTALS MAX. MARKS: 20			
		SECTION -				
	ANSWER Coll the questions: e correct answer :	ON THE QUESTION	PAPER ITSELF	20*1=20		
1)	The instruction field spe	ecify a				
	(a) pseudoinstruction (b) memory-reference in (c) register-reference instruction (d) all.			nstruction		
2)	Programs may be written using					
,	(a) Binary code			(d) all.		
3)	1024×8 memory is constructed with					
ŕ	(a) 128×8 RAM	(b) 512×8 ROM	(c) both	(d) none.		
4)	Arrange the memory in terms of processing speed.					
	(a) RAM	(b) cache	(c) Disk	(d) Registers.		
5)	The decimal equivalent of hexadecimal F3 is					
	(a)153	(b) 240		(d) none.		
6)	The CPU organizations can be					
	(a) Single accumulator	(b) General register	(c) Stack	(d) all.		
7)	A command is used to activate the peripheral.					
	(a) I/O	(b) Control	(c) status	(d) none.		
8)	RAM chips operate in					
	(a) static	(b) dynamic	(c) both	(d) none.		
9)	LAN applies					
	(a) tree	(b) mesh	(c) both	(d) none.		

10) A digit	10) A digital data is represented as							
(a) con	tinuous	(b)discrete	(c) both	(d) none.				
Fill in the blanks	:							
11) An		converts p	orogram written in sy	ymbolic code to binary.				
12)		is a program v	which starts when co	omputer is switched on.				
13)		is an examp	ple for pointing Dev	ices.				
14) Contro	l word specific	es						
15) Univer	sal gates are _		and					
16) The add	dress space of	cpu with 16 processor	r register is	bits.				
17)		method i	s useful in low spee	d computers.				
18) Associa	ative memory	can be referred as						
19) Incomp	oatible networl	ks are connected by m	achines called as					
20) DNS st	ands for		·					

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COURSE : MAJOR CORE

PAPER : COMPUTER ORGANIZATION AND NETWORK FUNDAMENTALS
TIME : 2 HOURS & 40 MINUTES MAX. MARKS: 80

SECTION-B

Answer ALL the questions:

5*2=10

- 1) What is an Interpreter?
- 2) Write about optical Disks.
- 3) What are Three- address Instructions? Write an advantage.
- 4) What are memory mapped I/O?
- 5) Differentiate the function of active hub from passive hub.

SECTION-C

Answer any EIGHT questions:

8*5=40

- 6) Compare the characteristics of RISC and CISC.
- 7) What is an Instruction Cycle? Explain its phases for an instruction.
- 8) Write notes on Auxiliary Memory.
- 9) Compare any three types of printers.
- 10) Convert the following:
 - (a) $(736.4)_8$ into decimal.
 - (b) $(41.6875)_{10}$ into binary.
 - (c) X = 1010100, Y = 1000011, X Y = ?
 - (d) (1010000001100011)₂ to Hexadecimal.
 - (e) $(101101)_2$ to decimal.
- 11) Explain any five data transfer instructions with example for each.
- 12) Explain Direct Memory Access.
- 13) Write notes on Associative Memory.
- 14) Compare the types of networks.
- 15) Write about Bridges and Routers.

SECTION-D

Answer any THREE questions:

3*10=30

- 16) Explain the role of an assembler during translation process.
- 17) Discuss in detail about mapping process in cache memory.
- 18) Explain the purpose of addressing modes and its types.
- 19) Explain Asynchronous Data transfer.
- 20) Describe any five network Topologies.
