

11. ARM processors support data types of 8 (byte), 16 (halfword), and 32 (word) bits in length.
12. Most machines provide the basic arithmetic operations of add, subtract, multiply, and divide.
13. A branch can be either forward or backward.

C	CS 330 Chapter 12 Study online at https://quizlet.com/_3cpi5y	
14.	Procedures do not allow programming tasks to be subdivided into smaller units.	F
15.	The focus of MMX technology is multimedia programming.	Т
16.	The specifies the operation to be performed. A. source operand reference B. opcode	B. opcode
	C. next instruction reference D. processor register	
17.	A(n) expresses operations in a concise algebraic form using variables.	B. high-level lan- guage
	A. opcode B. high-level language	
	C. machine language D. register	
18.	There must be instructions for moving data between memory and the registers.	C. memory
	A. branch B. logic	
	C. memory D. I/O	
19.	instructions operate on the bits of a word as bits rather than as numbers, providing capabilities for processing any other type of data the user may wish to employ.	A. Logic
	A. Logic B. Arithmetic	
	C. Memory D. Test	
20.	instructions provide computational capabilities for processing number data.	D. Arithmetic
	A. Boolean B. Logic	

	C. Memory D. Arithmetic	
21.	instructions are needed to transfer programs and data into memory and the results of computations back out to the user.	A. I/O
	A. I/O B. Transfer	
	C. Control D. Branch	
22.	The x86 data type that is a signed binary value contained in a byte, word, or doubleword, using twos complement representation is	C. integer
	A. general B. ordinal	
	C. integer D. packed BCD	
23.	The most fundamental type of machine instruction is the instruction.	B. data transfer
	A. conversion B <mark>. data transfer</mark>	
	C. arithmetic D. logical	
24.	The instruction includes an implied address.	A. skip
	A <mark>. skip</mark> B. rotate	
	C. stack D. push	
25.	Which of the following is a true statement?	D. all of the above
	A. a procedure can be called from more than one location	
	B. a procedure call can appear in a procedure	

3/6

C	CS 330 Chapter 12 Study online at https://quizlet.com/_3cpi5y	
	C. each procedure call is matched by a return in the called program	
	D. all of the above	
26.	The entire set of parameters, including return address, which is stored for a procedure invocation is referred to as a	B. stack frame
	A. branch B <mark>. stack frame</mark>	
	C. pop D. push	
27.	Which ARM operation category includes logical instructions (AND, OR, XOR), add and subtract instructions, and test and compare instructions?	
	A. data-processing instructions B. branch instructions	
	C. load and store instructions D. extend instructions	
28.	In the ARM architecture only instructions access memory locations.	C. load and store
	A. data processing B. status register access	
	C. load and store D. branch	
29.	Which data type is defined in MMX?	D. all of the above
	A. packed byte B. packed word	
	C. packed doubleword D. all of the above	
30.	A branch instruction in which the branch is always taken is	B. unconditional branch

A. conditional branch B. unconditional branch

CS 330 Chapter 12 Study online at https://quizlet.com/_3cpi5y

	lumn		hi o	ndian
U.	Jullip	υ.	DI-E	ndian

31.	The operation of the processor is determined by the instructions it executes, referred to as or computer instructions.	
32.	The collection of different instructions that the processor can execute is referred to as the processor's	instruction set
33.	The reference tells the processor where to fetch the next instruction after the execution of this instruction is complete.	next instruction
34.	Source and result operands can be in one of four areas: main or virtual memory, immediate, I/O device, and	processor register
35.	Opcodes are represented by abbreviations, called that indicate the operation.	mnemonics
36.	Instruction types can be categorized as: data processing, data storage, control, and	data movement
37.	Zero-address instructions are applicable to a special memory organizations called a, which is a last-in-first-out set of locations.	stack
38.	The most important general categories of data are: addresses, numbers, characters, and	logical data
39.	Today the most commonly used character code is the IRA, referred to in the United States as	ASCII
40.	instructions are those that change the format or operate on the format of data.	Conversion
41.		System control

C	CS 330 Chapter 12 Study online at https://quizlet.com/_3cpi5y	
	ed only while the processor is in a certain privileged state or is executing a program in a special privileged area of memory.	
42.	A self-contained computer program that is incorporated into a larger program is a	procedure
43.	The x86 provides four instructions to support procedure call/return: CALL, ENTER, LEAVE, and	RETURN
44.	are bits in special registers that may be set by certain operations and used in conditional branch instructions.	status flags
45.	Intel's technology is a set of highly optimized instructions for multimedia tasks.	MMX