

Department of Computer Science and Engineering

CS8491-COMPUTER ARCHITECTURE

Unit I - MCQ Bank

1.	A source program is usually in
	A. Assembly language
	B. Machine level language
	C. High-level language
	D. Natural language
	ANSWER: (C).
2.	Which memory device is generally made of semiconductors?
	A. RAM
	B. Hard-disk
	C. Floppy disk
	D. Cd disk
	ANSWER: (A).
3.	The ALU makes use of to store the intermediate results.
	A. Accumulators
	B. Registers
	C. Heap
	D. Stack
	ANSWER: (A).
4.	An optimizing Compiler does
	A. Better compilation of the given piece of code
	B. Takes advantage of the type of processor and reduces its process time
	C. Does better memory management
	D. None of the mentioned
	ANSWER: (B).

5.	SPEC stands for		
	A. Standard Performance Evaluation Code		
	B. System Processing Enhancing Code		
	C. System Performance Evaluation Corporation		
	D. Standard Processing Enhancement Corporation		
	ANSWER: (C).		
6.	If the instruction, Add R1, R2, R3 is executed in a system that is pipe-lined, then the value of S is		
	(Where S is a term of the Basic performance equation)?		
	A. 3		
	B. ~2		
	C. ~1		
	D. 6		
	ANSWER: (C).		
7.	The instruction, Add #45,R1 does		
	A. Adds the value of 45 to the address of R1 and stores 45 in that address		
	B. Adds 45 to the value of R1 and stores it in R1		
	C. Finds the memory location 45 and adds that content to that of R1		
	D. None of the mentioned		
	ANSWER: (B).		
8.	In the case of, Zero-address instruction method the operands are stored in		
	A. Registers		
	B. Accumulators		
	C. Push down stack		
	D. Cache		
	ANSWER: (C).		
9.	Add #45, when this instruction is executed the following happen/s		
	A. The processor raises an error and requests for one more operand		
	B. The value stored in memory location 45 is retrieved and one more operand is requested		
	C. The value 45 gets added to the value on the stack and is pushed onto the stack		
	D. None of the mentioned		
	ANSWER: (B).		

10. In the following indexed addressing mode instruction, MOV 5(R1), LOC the effective address is

A. EA = 5 + R1

- B. EA = R1
- C. EA = [R1]
- **D.** EA = 5 + [R1]

ANSWER: (D).

- 11. The addressing mode/s, which uses the PC instead of a general purpose register is
 - A. Indexed with offset
 - **B.** Relative
 - C. Direct
 - D. Both Indexed with offset and direct

ANSWER: (B).

- 12. When we use auto increment or auto decrements, which of the following is/are true?
 - 1) In both, the address is used to retrieve the operand and then the address gets altered
 - 2) In auto increment, the operand is retrieved first and then the address altered
 - 3) Both of them can be used on general purpose registers as well as memory locations
 - A. 1, 2, 3
 - B. 2
 - C. 1, 3
 - D. 2, 3

ANSWER: (D).

13. The addressing mode, where you directly specify the operand value is ______

- A. Immediate
- B. Direct
- C. Definite
- D. Relative

ANSWER: (A).

14. The effective address of the following instruction is MUL 5(R1,R2).

- A. 5+R1+R2
- B. 5+(R1*R2)

	C. 5+[R1]+[R2]
	D. 5*([R1]+[R2])
	ANSWER: (C).
15.	addressing mode is most suitable to change the normal sequence of execution of
	instructions.
	A. Relative
	B. Indirect
	C. Index with Offset
	D. Immediate
	ANSWER: (A).
16.	The small extremely fast, RAM's are called as
	A. Cache
	B. Heaps
	C. Accumulators
	D. Stacks
	ANSWER: (A).
17.	The control unit controls other units by generating
	A. Control signals
	B. Timing signals
	C. Transfer signals
	D. Command Signals
	ANSWER: (B).
18.	addressing mode is most suitable to change the normal sequence of
	execution of instructions.
	A. Relative
	B. Indirect
	C. Index with Offset
	D. Immediate
	ANSWER: (A).
19.	Which method/s of representation of numbers occupies a large amount of memory than others?

A. Sign-magnitude

	В.	1's complement
	C.	2's complement
	D.	1's & 2's compliment
	AN	ISWER: (A).
20.	The	eformat is usually used to store data.
	A.	BCD
	B.	Decimal
	C.	Hexadecimal
	D.	Octal
	AN	JSWER: (A).
21.	The	e 8-bit encoding format used to store data in a computer is
	A.	ASCII
	B.	EBCDIC
	C.	ANCI
	D.	USCII
	AN	ISWER: (B).
22.		are numbers and encoded characters, generally used as operands.
	A.	Input
	B.	Data
	C.	Information
	D.	Stored Values
	AN	ISWER: (B).
23.	Wł	nich registers can interact with the secondary storage?
	A.	MAR
	B.	PC
	Ċ.	IR
	D.	R0
	AN	ISWER: (A).
24.	An	optimizing Compiler does
	A.	Better compilation of the given piece of code
	B.	Takes advantage of the type of processor and reduces its process time

- C. Does better memory management
- D. None of the mentioned

ANSWER: (B).

- 25. Two processors A and B have clock frequencies of 700 Mhz and 900 Mhz respectively. Suppose A can execute an instruction with an average of 3 steps and B can execute with an average of 5 steps. For the execution of the same instruction which processor is faster?
 - **A. A**
 - B. B
 - C. Both take the same time
 - D. Insufficient information

ANSWER: (A).