



In the Name of Allāh, the Most Gracious, the Most Merciful

MidTerm Papers Solved MCQS with Reference (1 to 22 lectures)

1. What is the instruction length of the FALCON-A processor?

- 8 bits
- 16 bits
- 32 bits
- 64 bits

PG # 91

2. What is the instruction length of the SRC processor?

- 8 bits
- 16 bits
- 32 bits
- 64 bits

PG # 134

3. What does the word 'D' in the 'D-flip-Flop' stands for?

- Double
- Data
- Digital
- Dynamic

PG # 76

4. “If $P = 1$, then load the contents of register R1 into register R2”. This statement can be written in RTL as:

- R1 \leftarrow R2
- P: R1 \leftarrow R2
- P: R2 \leftarrow R1**
- P: R2 \leftarrow R1, P: R1 \leftarrow R2

[Click Here For More Detail](#)

5. Almost every commercial computer has its own particular _____ language.

- assembly language**
- English language
- Higher level language
- 3GL

PG # 25

6. A _____ is a computer program that is used to test and debug other programs.

- Linker
- Loader
- Debugger**
- Compiler

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7. What is the working of **Processor Status Word (PSW)**?

- To hold the current status of the processor.**
- To hold the address of the current process
- To hold the instruction that the computer is currently processing
- To hold the address of the next instruction in memory that is to be executed

PG # 28

8. The instruction _____ will **load** the register R3 with the contents of the memory location M [PC+56]

- Add R3, 56
- lar R3, 56
- ldr R3, 56**
- str R3, 56

PG # 47

9. Motorola MC68000 is an example of _____ microprocessor.

- CISC**
- RISC
- SRC
- FALCON

PG # 148

10. _____ control signal allows the contents of the Program Counter register to be written onto the internal processor bus.

- INC4
- LPC
- PCout**
- LC

PG # 172

11. **Op<4..0>:= IR: <15..11>:**

The above RTL instruction presents the _____ of the FALCON-A Instructions.

- operation code field**
- target register field
- operand or address index
- second operand

PG # 105

12. _____ operation is required to change the processor's state to a known, defined value.

- Change
- Reset**
- Update
- Halt

PG # 194

13. _____ is/are defined as the number of instructions processed per second

- Throughput**
- Latency
- Hazards
- Throughput and Latency

PG # 203

Latency is defined as the time required to process a single instruction, while **throughput is defined as the number of instructions processed per second.**

14. Which of the following register(s) is/are programmer invisible and is/are required to hold an operand or result value while the bus is busy transmitting some other value?

- Instruction Register
- Memory address register
- Memory Buffer Register

Registers A and C

PG # 152

15. Anything that interrupts the normal flow of execution of instructions in the processor is called a/an _____.

- Function
- Exception**
- Assembler
- Machine

PG # 197

16. In pipelining _____ is increased by overlapping the instruction execution

- Latency
- Throughput**
- Execution time
- Clock speed

PG # 220

17. _____ control signal enable the input to the PC for receiving a value that is currently on the internal processor bus.

- LPC**
- INC4
- LC
- Cout

PG # 172

18. In which one of the following addressing modes, data is the part of the instruction itself, and so there is no need of address calculation?

- Direct Addressing Mode
- Immediate addressing mode**
- Indirect Addressing Mode
- Register (Direct) Addressing Mode

PG # 40

19. Which of the following hazard occurs when attempting to access the same resource in different ways at the same time?

- RAW (read after write) data hazard
- Structural hazard**
- Branch hazard
- Complex hazard

PG # 214

20. _____ is the arithmetic portion of the Von Neumann architecture. It consists of registers, internal buses, arithmetic units and shifters.

- Virtual Memory
- Data path**
- Structural RTL
- Timing

PG # 151

21. Which type of instructions load data from memory into registers, or store data from registers into memory and transfer data between different kinds of special-purpose registers?

- Arithmetic
- Control
- Data transfer**
- Floating point

22. What functionality is performed by the instruction "lar R3, 36" of SRC?

- it will load the register R3 with the contents of the memory location M [PC+36]
- It will load the register R3 with the relative address itself (PC+36).**
- It will store the register R3 contents to the memory location M [PC+36]
- No operation

PG #48

23. Type A format of SRC uses _____ instructions

- Two**
- Three
- Four
- Five

PG # 47

24. P: R3 ← R5

MAR ← IR

These two are instructions written using RTL .If these two operations is to occur simultaneously then which symbol will we use to separate them so that it becomes a correct statement with the condition that two operations occur simultaneously?

- Arrow ←
- Colon :
- Comma ,
- Parentheses ()

25. FALCON-A processor bus has 16 lines or is 16-bits wide while that of SRC is _____ wide.

- 8-bits
- 24-bits
- 32-bits
- 64-bits

PG # 157

26. Which one of the following register holds the instruction that is being executed?

- Accumulator
- Address Mask
- Instruction Register
- Program Counter

PG # 152

27. Which one of the following design levels is called the gate level?

- Logic Design Level
- Circuit Level
- Mask Level
- Register transfer Level

PG # 22

28. Which one of the following is called **1-address machine**?

- Accumulator based machines** **PG # 32**
- Stack based machines
- General purpose register machines
- CISC machines

29. For the _____ type instructions, we require a register to hold the data that is to be loaded from the memory, or stored back to the memory

- Jump
- Control
- load/store** **PG # 89**
- Arithmetic/Logic

30. The _____ instruction is completed once memory access has been made and the memory location has been written to.

- Store** **PG # 208**
- Branch
- Load
- Control

31. Type B format of SRC uses _____ instructions

- Two
- Three** **PG # 47**
- Four
- Five

32. PowerPC 601 is an example of_____

- FALCON-A
- EAGLE
- Superscalar processor**
- SRC

PG # 221

33. Which of the following register(s) takes input from the ALSU as the address of the memory location to be accessed and transfers the memory contents on that location onto the memory sub-system?

- Instruction Register
- Memory address register**
- Memory Buffer Register
- Registers A and C

PG # 151

34. For any of the instructions that are a part of the instruction set of the SRC, there are certain _____ required; which may be used to select the appropriate function for the ALU to be performed, to select the appropriate registers, or the appropriate memory location

- DMA controllers
- Memory
- Control signals**
- Registers

PG # 171

35. Which of the following hazard occur when an instruction attempts to access some data value that has not yet been updated by the previous instruction?

- Data hazard**
- Structural hazard
- Branch hazard
- Complex hazard

PG # 215

36. Which one of the following is a bi-stable device, capable of storing one bit of information?

- Decoder
- Flip-Flop**
- Multiplexer
- Diplexer

PG # 76

37. _____ are faster than cache memory

- RAM
- Registers**
- Hard disk
- ROM

PG # 33

38. An “assembler” that runs on one processor and translates an assembly language program written for another processor into the machine language of the other processor is called a -----

- compiler
- cross assembler**
- debugger
- linker

PG # 26

39. FALCON stands for _____?

- First Architecture for Learning Computer Organization and Networks**
- Final Architecture for Learning Computer Organization and Networks
- Final Analysis for Learning Computer Organization and Networks
- First Analysis for Learning Computer Organization and Networks

PG # 90

40. _____ is defined as the time required to process a single instruction.

- Latency & throughput
- Latency**
- Throughput
- Hazards

PG # 203

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but wanting to win is
everything.....
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