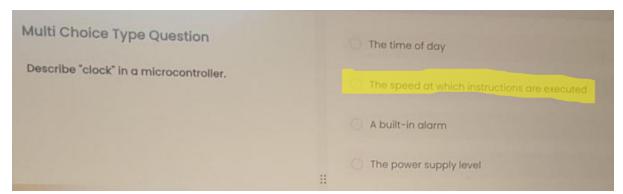
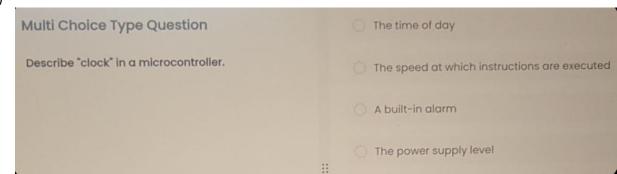
without affecting the flags? ADD A, B CLR A SUBB A,B **MOV A,B** 2) Multi Choice Type Question General-purpose functionality Which of the following is a characteristic of embedded systems? **Expensive hardware components** Large physical size 3) Multi Choice Type Question internal memory A microprocessor typically requires external memory \_\_\_\_\_ to function. no internal and external memory 4) Multi Choice Type Question Network Memory limitation can be a drawback in which Standalone type of embedded system Reactive

1) Which instruction in the 8051 microcontroller moves data from one register to another

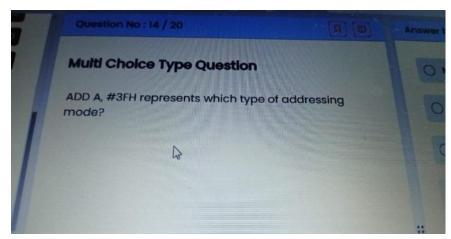


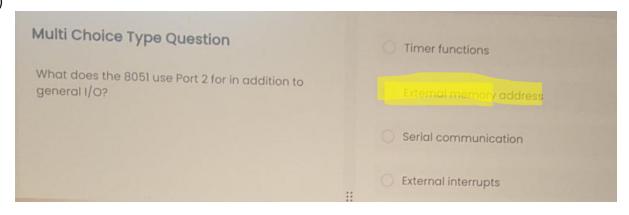
6)

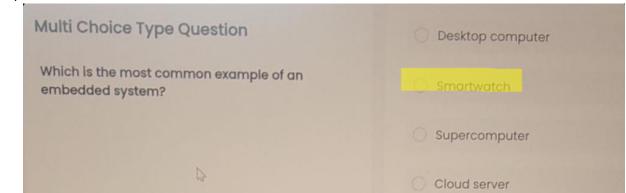


7)

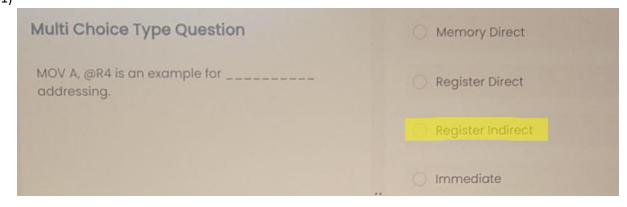
Multi Choice Type Question	Microprocessor
what are optimized to perform particular task they are intended to perform.	Microcontroller
	O 8051
	Embedded system

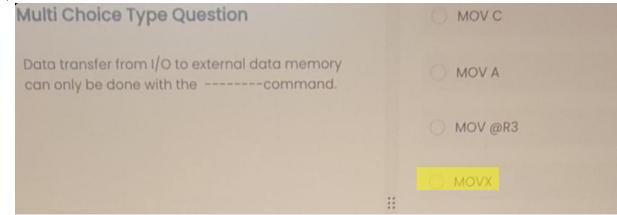






11)





15)

Multi Choice Type Question	O Port 0	
Which port in the 8051 is used for serial data transmission?	O Port 1	
	O Port 2	
	Port 3	

Multi Choice Type Question

Rotate bits of the accumulator right through carry

"RLC A" is for

Rotate bits of the accumulator right

Rotate bits of the accumulator left through carry

Rotate bits of the accumulator left

Multi Choice Type Question

\_\_\_ assess the data to measure the output and store it to the memory.

ADC

Processor &ASIC

Actuator

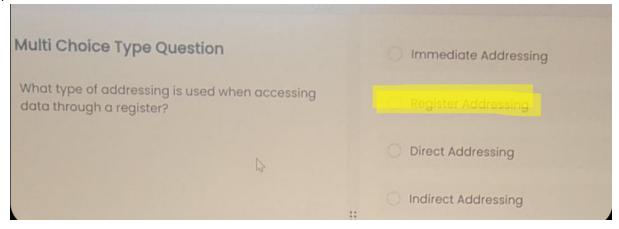
Multi Choice Type Question

Power Supply

Which of the following is a part of the microcontroller?

Rectifier

Filter

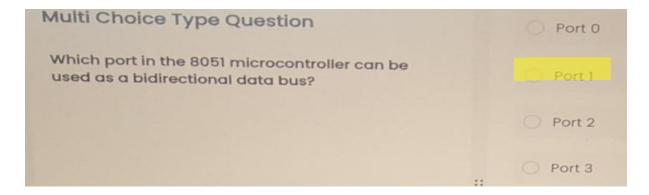


18)

Multi Choice Type Question	O Predictability
Which of the following is NOT a feature of real time embedded systems?	Reliability
	Determinism
	Randomness

19)

Multi Choice Type Question	Task priority
Which factor is most critical in determining the feasibility of a task set in real time systems?	Resource availability
	Deadline adherence
	 System uptime



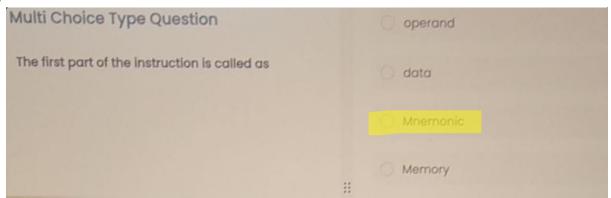
21)		
	riditi Choice Type Question	O It powers the system
	Which of the following best describes the role of software in an embedded system?	It provides the graphical interface for the user      It controls the barehaves to a significant.
		It controls the hardware to perform specific tasks
		It is only used for storing data
22)		
	Multi Choice Type Question	Internal memory and External memory.
	MOVX and MOVC are used to exchange the content with	Code memory and External memory.
		Internal memory and code memory.
		External memory and code memory.
23)		
	Multi Choice Type Question	O P3.6
	Which port pin is used for the external memory address latch enable (ALE)?	O P0.0
	30	O PO.1
		O P2.0
24)		
•	Multi Choice Type Question	Swap 8-bit data with the accumulator
	SWAP A is for	Swap 8-bit data within the accumulator
		Curan pilibles within the annual date

Swap 8-bit data within the memory

25)		
ŕ	Multi Choice Type Question	It is easier to write than high-level languages
	Why is assembly language sometimes used to program microcontrollers?	It provides direct control over hardware
		It is the only language microcontrollers understand
		☐ It is faster to learn than other languages ∷
26)		
	Multi Choice Type Question	When low power consumption is critical
	In which scenario might the Von Neumann architecture be more suitable than the Harvard architecture in an embedded system?	When simplicity and cost are priorities
		When high processing speed is required
		When separate memory for instructions and data is needed
27)		
	Multi Choice Type Question	The task is discarded, but the system continues operating
	In a firm real-time system, what happens if a task misses its deadline?	The system crashes
		The task is re-executed
		The deadline is extended automatically
28)		
	Multi Choice Type Question	FPGA is slower than PLD
	The difference between FPGA and PLD is	FPGA has high power dissipation
		FPGA incorporates logic blocks
		All of the mentioned

Multi Choice Type Question		O D-
In type A USB, pin no. I which is of red color, is		○ D+
		VBUS
	::	GND

30)



31)

Multi Choice Type Question	High-speed network connectivity	
What feature is important for embedded systems in remote sensing applications?	Ability to operate in harsh environments and low power con-	5
	Large-scale data storage capabilities	
	High-definition graphics	

Multi Choice Type Question	To connect the microcontroller to external devices
Input/output (I/O) ports used for?	To store data temporarily
	To perform arithmetic operations
	○ To generate interrupts

33)		
	Multi Choice Type Question	Register Indirect Addressing Mode
	Which of the following is not an addressing mode in the 8051?	Implied Addressing Mode
		Memory Addressing Mode
		Direct Addressing Mode
34)		
	Multi Choice Type Question	High voltage AC power supply
	What is a typical power supply feature of embedded systems?	Low voltage DC power supply
		Battery or low power adapter
		Continuous power generation unit
35)		
	Multi Choice Type Question	To connect the microcontroller to external devices
	Input/output (I/O) ports used for?	To store data temporarily
		To perform arithmetic operations
	8	To generate interrupts
36)		
	Multi Choice Type Question	O Port 0
	Which port in the 8051 microcontroller can be used as a bidirectional data bus?	O Port 1
		O Port 2
		O Port 3



