

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : B.E / CSE	Year / Semester : III/V	Format No.	NAC/TLP-07a.13
Subject Code : EC8691	Subject Name :Microprocessor&Microcontroller	Rev. No.	02
Unit No : V	Unit Name : Interfacing Microcontroller	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	<p>What is the clock source for the timers?</p> <p>A) Some External Crystal Applied to the Micro-Controller for executing the timer B) From the Crystal Applied To The Micro-Controller C) Through the Software D) Through Programming</p>	L4
2	<p>What is the frequency of the clock that is being used as the clock source for the timer?</p> <p>A) Some Externally Applied Frequency F' B) Controller's Crystal Frequency F C) Controller's Crystal Frequency /12 D) Externally Applied Frequency/12</p>	L4
3	<p>What is the function of the TMOD register?</p> <p>A) TMOD Register Is Used To Set Various Operation Modes Of Timer/Counter B) TMOD Register Is Used To Load The Count Of The Timer C) Is The Destination Or The Final Register Where The Result Is Obtained After The Operation Of The Timer D) Is Used To Interrupt The Timer</p>	L4
4	<p>What is the maximum delay that can be generated with the crystal frequency of 22MHz?</p> <p>A) 2978.9 SEC B) 0.011 MSEC C) 11.63 SEC D) 2.97 MSEC</p>	L4
5	<p>Auto reload mode is allowed in which mode of the timer?</p> <p>A) Mode 0 B) Mode 1 C) Mode 2 D) Mode 3</p>	L4
6	<p>Find out the roll over value for the timer in Mode 0, Mode 1 and Mode 2?</p> <p>A) 00FFH,0FFFH,FFFFH B) 1FFFH,0FFFH,FFFFH C) 1FFFH,FFFFH,00FFH D) 1FFFH,00FFH,FFFFH</p>	L4

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7	<p>What steps are followed when we need to turn on any timer?</p> <p>A) Load The Count, Start The Timer, Keep Monitoring It, Stop The Timer B) Load The TMOD Register, Load The Count, Start The Timer, Keep Monitoring It, Stop The Timer C) Load The TMOD Register, Start The Timer, Load The Count, Keep Monitoring It, Stop The Timer D) None Of The Mentioned</p>	L4
8	<p>If Timer 0 is to be used as a counter, then at what particular pin clock pulse need to be applied?</p> <p>A) P3.3 B) P3.4 C) P3.5 D) P3.6</p>	L4
9	<p>In the instruction “MOV TH1,#-3”, what is the value that is being loaded in the TH1 register?</p> <p>A) 0XFCH B) 0XFBH C) 0XFDH D) 0XFEH</p>	L4
10	<p>TF1, TR1, TF0, TR0 bits are of which register?</p> <p>A) TMOD B) SCON C) TCON D) SMOD</p>	L4
11	<p>Which devices are specifically being used for converting serial to parallel and from parallel to serial respectively?</p> <p>A) Timers B) Counters C) Registers D) Serial Communication</p>	L4
12	<p>What is the difference between UART and USART communication?</p> <p>A) They Are The Names Of The Same Particular Thing, Just The Difference Of A And S Is There In It B) One Uses Asynchronous Means Of Communication And The Other Uses</p>	L4

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	<p>Synchronous Means Of Communication</p> <p>C) One Uses Asynchronous Means Of Communication And The Other Uses Asynchronous And Synchronous Means Of Communication</p> <p>D) One Uses Angular Means Of The Communication And The Other Uses Linear Means Of Communication</p>	
13	<p>Each port line of a port can individually source a current of upto</p> <p>A) 0.2 Ma</p> <p>B) 0.25 Ma</p> <p>C) 0.5 Ma</p> <p>D) 0.75 Ma</p>	L4
14	<p>Which of the following signal control the flow of data?</p> <p>A) RTS</p> <p>B) DTR</p> <p>C) RTS & DTR</p> <p>D) None Of The Mentioned</p>	L4
15	<p>Which of the following is the logic level understood by the micro-controller/micro-processor?</p> <p>A) TTL Logic Level</p> <p>B) RS232 Logic Level</p> <p>C) None Of The Mentioned</p> <p>D) TTL & RS232 Logic Level</p>	L4
16	<p>What is a null modem connection?</p> <p>A) No Data Transmission</p> <p>B) No MAX232</p> <p>C) The Rxd Of One Is The Txd For The Other</p> <p>D) No Serial Communication</p>	L4
17	<p>Which of the following best states the reason that why baud rate is mentioned in serial communication?</p> <p>A) To Know About The No Of Bits Being Transmitted Per Second</p> <p>B) To Make The Two Devices Compatible With Each Other, So That The Transmission Becomes Easy And Error Free</p> <p>C) To Use Timer 1</p> <p>D) For Wasting Memory</p>	L4

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18	<p>What is the function of the SCON register?</p> <p>A) To Control SBUF And SMOD Registers B) To Program The Start Bit, Stop Bit, And Data Bits Of Framing C) To Control SMOD Registers D) None Of The Mentioned</p>	L4
19	<p>What should be done if we want to double the baud rate?</p> <p>A) Change A Bit Of The TMOD Register B) Change A Bit Of The PCON Register C) Change A Bit Of The SCON Register D) Change A Bit Of The SBUF Register</p>	L4
20	<p>When an interrupt is enabled, then where does the pointer moves immediately after this interrupt has occurred?</p> <p>A) To The Next Instruction Which Is To Be Executed B) To The First Instruction Of ISR C) To A Fixed Location In Memory Called Interrupt Vector Table D) To The End Of The Program</p>	L4
21	<p>After RETI instruction is executed then the pointer will move to which location in the program?</p> <p>A) Next Interrupt Of The Interrupt Vector Table B) Immediate Next Instruction Where Interrupt Is Occurred C) Next Instruction After The RETI In The Memory D) None Of The Mentioned</p>	L4
22	<p>Which of the following combination is the best to enable the external hardware interrupt 0 of the IE register (assuming initially all bits of the IE register are zero)?</p> <p>A) EX0=1 B) EA=1 C) Any Of The Mentioned D) EX0=1 & EA=1</p>	L4
23	<p>Why normally LJMP instructions are the topmost lines of the ISR?</p> <p>A) So As To Jump To Some Other Location Where There Is A Wider Space Of Memory Available To Write The Codes B) So As To Avoid Overwriting Of Other Interrupt Instructions C) All Of The Mentioned D) None Of The Mentioned</p>	L4

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24	<p>How many rows and columns are present in a 16*2 alphanumeric LCD?</p> <p>A) Rows=2, Columns=32 B) Rows=16, Columns=2 C) Rows=16, Columns=16 D) Rows=2, Columns=16</p>	L4
25	<p>For writing commands on an LCD, RS bit is</p> <p>A) Set B) Reset C) Set & Reset D) None Of The Mentioned</p>	L4
26	<p>Which of the following step/s is/are correct for sending data to an LCD?</p> <p>A) Set The R/W Bit B) Set The E Bit C) Set The RS Bit D) All Of The Mentioned</p>	L4
27	<p>Which of the following step/s is/are correct to perform reading operation from an LCD?</p> <p>A) Low To High Pulse At E Pin B) R/W Pin Is Set High C) Low To High Pulse At E Pin & R/W Pin Is Set High D) None Of The Mentioned</p>	L4
28	<p>Which of the following steps detects the key in a 4*4 keyboard matrix about the key that is being pressed?</p> <p>A) Masking Of Bits B) Ensuring That Initially, All Keys Are Open C) Checking That Whether The Key Is Actually Pressed Or Not D) All Of The Mentioned</p>	L4
29	<p>To detect that in which column, the key is placed?</p> <p>A) We Can Mask The Bits And Then Check It B) We Can Rotate The Bits And Then Check That Particular Bit Which Is Set Or Reset C) None Of The Mentioned D) All Of The Mentioned</p>	L4

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30	To identify that which key is being pressed, we need to: A) Ground All The Pins Of The Port At A Time B) Ground Pins Of The Port One At A Time C) Connect All The Pins Of The Port To The Main Supply At A Time D) None Of The Mentioned	L4
31	Key press detection and Key identification are: A) The Same Processes B) Two Different Works Are Done In Keyboard Interfacing C) None Of The Mentioned D) Any Of The Mentioned	L4
32	Why two pins for ground are available in ADC0804? A) For Controlling The ADCON0 And ADCON1 Register Of The Controller B) For Controlling The Analog And The Digital Pins Of The Controller C) For Both Parts Of The Chip Respectively D) For Isolate Analog And Digital Signal	L4
33	What is the difference between ADC0804 and MAX1112? A) ADC0804 Has 8 Bits And MAX1112 Has 1 Bit For Data Output B) ADC0804 Is Used For Adc And Dac Conversions Whereas MAX1112 Is Used For Serial Data Transmissions C) ADC0804 Has 32 Bits And MAX1112 Has 3 Bit For Data Output D) None Of The Mentioned	L4
34	Which of the following statements are true about DAC0808? A) Parallel Digital Data To Analog Data Conversion B) It Has Current As An Output C) All Of The Mentioned D) None Of The Mentioned	L4
35	What is the difference between LM 34 and LM 35 sensors? A) One Is A Sensor And The Other Is A Transducer B) One's Output Voltage Corresponds To The Fahrenheit Temperature And The Other Corresponds To The Celsius Temperature C) One Is Of Low Precision And The Other Is Of Higher Precision D) One Requires External Calibration And The Other Doesn't Require It	L4

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36	<p>Why Vref is set of ADC0848 to 2.56 V if analog input is connected to the LM35?</p> <p>A) To Set The Step Size Of The Sampled Input B) To Set The Ground For The Chip C) To Provide Supply To The Chip D) All Of The Mentioned</p>	L4
37	<p>What is the principle on which electromagnetic relays operate?</p> <p>A) Electromagnetic Induction B) Motor Control C) Switching D) None Of The Mentioned</p>	L4
38	<p>How can we control the speed of a stepper motor?</p> <p>A) By Controlling Its Switching Rate B) By Controlling Its Torque C) By Controlling Its Wave Drive 4 Step Sequence D) Can't Be Controlled</p>	L4
39	<p>Which of the following is not one of the SFR addresses of the ports of 8051?</p> <p>A) 80H B) 90H C) A0H D) NONE</p>	L4
40	<p>The number of TTL inputs that can be sinked by the port 0 when a logic 0 is sent to a port line as an output port is</p> <p>A) 2 B) 4 C) 6 D) 8</p>	L4
41	<p>If the EA(active low) signal is grounded then the execution</p> <p>A) Directly Start From Main Memory B) Directly Start From 16 Bit Address In Main Memory C) Directly Start From 16 Bit Address In Program Memory D) Directly Start From RAM</p>	L4