

NADAR SARASWATHI COLLEGE OF ENGINEERING AND TECHNOLOGY, THENI.

Course/Branch : BE / EEE	Year / Semester : III / V	Format No.	NAC/TLP-07a.13
Subject Code :EE8551	Subject Name :Microprocessors and Microcontrollers	Rev. No.	02
Unit No : 05	Unit Name : Micro Controller Programming & Applications	Date	30.09.2020

OBJECTIVE TYPE QUESTION BANK

S. No.	Objective Questions (MCQ /True or False / Fill up with Choices)	BTL
1	What is the principle on which electromagnetic relays operate? A) electromagnetic induction B) motor control C) Switching D) none of the mentioned	L1
2	Which of the following is not a type of stepper motor? A) Variable Reluctance B) Hybrid C) Magnetic D) Lead-Screw	L2
3	To detect that in which column, the key is placed? 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(according to the particular condition) C) none of the mentioned D) all of the mentioned	L2
4	How many rows and columns are present in a 16*2 alphanumeric LCD? A) rows=2, columns=32 B) rows=16, columns=2 C) rows=16, columns=16 D) rows=2, columns=16	L1
5	What are DPDT relays? A) Single pole, single throw B) Single pole, double throw C) Double pole, double throw D) None of the mentioned	L2
6	Which of the following steps detects the key in a 4*4 keyboard matrix about the key that is being pressed? A) masking of bits	L1

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	<p>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>	
7	<p>What are optoisolators?</p> <p>A) it is a driver B) it is a thing isolated from the entire world C) it is a device that can be used as an electromagnetic relay without a driver D) none of the mentioned</p>	L2
8	<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) cannot be controlled</p>	L1
9	<p>Which of the following can be a unit for torque?</p> <p>A) kg/m² B) ounce-inch C) kg-m³ D) g/m</p>	L3
10	<p>What is described by the following command? KCODE0<<1</p> <p>A) load KCODE0 with 0 B) rotate the contents of the KCODE0 register to the right C) rotate the contents of the KCODE0 register to the left D) none of the mentioned</p>	L2
11	<p>If the pins of the keyboard are used as an interrupt, then these pins will cause an interrupt of what type?</p> <p>A) External hardware interrupt B) Timer interrupt C) TI/RI interrupt D) None of the mentioned</p>	L1

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12	To see if any key is pressed, all rows are grounded. A) True B) False	L1
13	Which pin of the LCD is used for adjusting its contrast? A) pin no 1 B) pin no 2 C) pin no 3 D) pin no 4	L2
14	In reading the columns of a matrix, if no key is pressed we should get all in binary notation A) 0 B) 1 C) F D) 7	L3
15	Which of the following is not a component of a stepper motor? A) Windings B) Rotor and Stator C) Commutator D) Brush E) Both C and D	L1
16	What will happen if the two keys of the keyboard are pressed at a time? A) both the keys will be displayed on the screen B) the key which is being actually pressed(for more then 20microseconds) will be displayed C) the key that is pressed first will be displayed D) none of the mentioned	L3
17	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	L2

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18	<p>Key press detection and Key identification are:</p> <p>A) the same processes B) two different works are done in Keyboard Interfacing C) none of the mentioned D) any of the mentioned</p>	L1
19	<p>What is the difference between full-step and half-step?</p> <p>A) In full-step two phases are on and in half-step only one phase is on. B) More resonance is evident in half-step C) More power required for full-step D) Half-step offers better resolution</p>	L2
20	<p>Why initially all keys are considered open before detecting the key pressed?</p> <p>A) to make the task easy B) to remove the errors caused by other pressing keys during detection C) to remove the flow problems D) none of the mentioned</p>	L1
21	<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>	L2
22	<p>What criteria's are necessary to consider when selecting a stepper motor?</p> <p>A) Mechanical Motion. B) Inertial Load C) Speed Requirements D) All of the above</p>	L1
23	<p>Which command of an LCD is used to shift the entire display to the right?</p> <p>A) 0x1C B) 0x18 C) 0x05 D) 0x07</p>	L1

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24	<p>Which of the following is NOT an advantage of stepper motors?</p> <p>A) Cost-efficient B) Maintenance-free C) No feedback D) More complex circuitry</p>	L1
25	<p>Which commands are used for addressing the off-chip data and associated codes respectively by data pointer?</p> <p>A) MOVX & MOVC B) MOVY & MOVB C) MOVZ & MOVA D) MOVC & MOVY</p>	L2
26	<p>Which mode of timer 2 allow to hold the reload values with an assistance of RCAP2H & RCAP2L register pair?</p> <p>A) 8 bit auto-reload mode B) 16 bit auto reload mode C) 8 bit capture mode D) 16 bit capture mode</p>	L2
26	<p>What is the required baud rate for an efficient operation of serial port devices in 8051 microcontroller?</p> <p>A) 1200 B) 2400 C) 4800 D) 9600</p>	L1
27	<p>Which value of disc capacitors is preferred or recommended especially when the quartz crystal is connected externally in an oscillator circuit of 8051?</p> <p>A) 10 pF B) 20 pF C) 30 pF D) 40 pF</p>	L2
28	<p>Why are the resonators not preferred for an oscillator circuit of 8051?</p> <p>A) Because they do not avail for 12 MHz higher order frequencies</p>	L1

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	<p>B) Because they are unstable as compared to quartz crystals</p> <p>C) Because cost reduction due to its utility is almost negligible in comparison to total cost of microcontroller board</p> <p>D) All of the above</p>	
29	<p>The 8051 microcontroller is of ___pin package as a _____ processor.</p> <p>A) 30, 1byte</p> <p>B) 20, 1 byte</p> <p>C) 40, 8 bit</p> <p>D) 40, 8 byte</p>	L2
30	<p>What is the constant activation rate of ALE that is optimized periodically in terms of an oscillator frequency?</p> <p>A) 1 / 8</p> <p>B) 1 / 6</p> <p>C) 1 / 4</p> <p>D) 1 / 2</p>	L1

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