

Time: One Hour

Max. Marks: 25

Instructions

Solve any 25 questions from Q.1 to Q.30

Solve any 25 questions from Q.31 to Q.60

- 1 8051 microcontroller has \_\_\_\_\_ of on chip program memory.  
(A)256 Bytes (B)1KB (C)2KB (D)4KB
- 2 8051 microcontroller has \_\_\_\_\_ KB program external ROM and \_\_\_\_\_ KB external RAM accessibility.  
(A)4, 64 (B)64, 4 (C)4, 4 (D)64, 64
- 3 8051 microcontroller has \_\_\_\_\_ bit \_\_\_\_\_ bus.  
(A)8, Data (B)16, Data (C)8, Address (D)20, Address
- 4 8051 microcontroller has \_\_\_\_\_ bi-directional and individual addressable lines arranged as four 8-bit ports P0-P3.  
(A)4 (B)8 (C)16 (D)32
- 5 8051 microcontroller has \_\_\_\_\_ timers/counters of \_\_\_\_\_ bits.  
(A)2, 4 (B)4, 8 (C)2, 16 (D)4, 16
- 6 8051 microcontroller has \_\_\_\_\_ register banks.  
(A)2 (B)4 (C)8 (D)16
- 7 Bit addressable memory locations in 8051 microcontroller are of \_\_\_\_\_ bits.  
(A)8 (B)16 (C)32 (D)128
- 8 \_\_\_\_\_ register of 8051 microcontroller has no internal RAM address.  
(A)ACC (B)TMOD (C)PC (D)PCON
- 9 \_\_\_\_\_ register of 8051 microcontroller is bit addressable.  
(A)SBUF (B)TMOD (C)DPL (D)ACC
- 10 \_\_\_\_\_ number of address lines is used to decode 2K bytes of memory.  
(A)10 (B)11 (C)12 (D)13
- 11 If RS0=0 and RS1=1 then register bank \_\_\_\_\_ of 8051 microcontroller is selected.  
(A)0 (B)1 (C)2 (D)3
- 12 \_\_\_\_\_ instruction in 8051 microcontroller takes 48 oscillator periods to execute.  
(A)ADD (B)ANL (C)SJMP (D)DIV
- 13 \_\_\_\_\_ instruction of 8051 microcontroller does not affect carry flag.  
(A)INC (B)RL (C)MUL (D)SUBB
- 14 \_\_\_\_\_ pin of 8051 microcontroller is multiplexed for external interrupt.  
(A)P3.0 (B)P3.1 (C)P3.3 (D)P3.4
- 15 ANL A, \_\_\_\_\_ is used to clear MSB of Accumulator in 8051 microcontroller.  
(A)7FH (B)0FH (C)F0H (D)80H
- 16 Mode \_\_\_\_\_ of timer in 8051 microcontroller is also called auto-reload mode.  
(A)0 (B)1 (C)2 (D)3
- 17 Bit \_\_\_\_\_ of PSW register of 8051 microcontroller is Auxiliary Carry flag  
(A)0 (B)2 (C)6 (D)7
- 18 Which one is the correct instruction in 8051 microcontroller?  
(A)ADD A, @R2 (B)ADD B, @R1 (C)ADD A, #255 (D)ADD B, A
- 19 Which one is an invalid instruction in 8051 microcontroller?  
(A)INC A (B)DEC @R1 (C)MUL A, B (D)ADD A, B
- 20 Which one is a valid instruction in 8051 microcontroller?  
(A)XCHD A, @R0 (B)XCHD A, R0 (C)XCHD A, 34H (D)XCHD A, B
- 21 Which one is an invalid instruction in 8051 microcontroller?  
(A)CPL C (B)ORL C, 22H (C)ANL C, /22H (D)XRL C, 22H
- 22 \_\_\_\_\_ of 8051 microcontroller is an 8-bit I/O port without internal pull-up.  
(A)PORT 0 (B)PORT 1 (C)PORT 2 (D)PORT 3
- 23 PC of 8051 microcontroller is a \_\_\_\_\_ bit register used to hold the \_\_\_\_\_ of the instructions.  
(A)8, address (B)8, data (C)16, address (D)16, data
- 24 The 128 bytes of internal RAM of 8051 microcontroller is divided into \_\_\_\_\_ parts.  
(A)2 (B)3 (C)4 (D)5
- 25 Which of the following Interrupt has highest priority?  
(A)IE0 (B)IE1 (C)TF0 (D)TF1
- 26 IE1 interrupt bit in 8051 microcontroller is available in \_\_\_\_\_ register.

## Examination October 2020

- (A) TCON (B) IP (C) IE (D) TMOD
- 27 Mode 0 of timer in 8051 microcontroller uses \_\_\_\_\_ bits of TLx and \_\_\_\_\_ bits of THx.  
(A) 5, 8 (B) 8, 5 (C) 8, 8 (D) 8, 0
- 28 RISC is abbreviation of \_\_\_\_\_.  
(A) Reduced Instruction Set Computer (B) Remote Instruction Set Computer (C) Random Instruction Set Computer (D) Rapid Instruction Set Computer
- 29 \_\_\_\_\_ pin of Port 3 in 89C2051 microcontroller is not accessible as a general-purpose I/O pin.  
(A) P3.4 (B) P3.5 (C) P3.6 (D) P3.7
- 30 \_\_\_\_\_ helps in generation of waveforms in microcontroller.  
(A) Input (B) Output (C) Timer (D) Memory