PAPER CODE:6306

M.Sc. (Sem. III) Examination (New Course)
JULY-SEP-2021
PHYSICS - MSPHY-302ES- Microcontroller

કુલ સમય :– ૩૦ મીનીટ કુલ પ્રશ્નો : ૨૫ વિદ્યાર્થીએ ટીક કરવાના પ્રશ્નો : ૧૮

નોંધ : વિદ્યાર્થીએ માત્ર ૧૮ પ્રશ્નો જ ટીક કરવાના રહેશે. જો વધારે ટીક કરેલ હશે તો પ્રથમ ૧૮ પ્રશ્નો જ ગણતરીમાં લેવામાં આવશે.

1 8050 Microcontroller has ?

a) 8-bit unidirectional data bus b.16-bit unidirectional data bus

c. 8-bit bidirectional data bus d.16-bit bidirectional data bus

2 8051 Microcontroller has Four register banks?

a) **Yes b.No c.Can be yes or no d.Cannot say**

3 Which of the following is Features of 8051 Microcontroller?

a) **16-bit program counter and data pointer b.Four 8-bit ports**

c. Three internal and two external Interrupts d.All of the above

4 Which data memory control and handle the operation of several peripherals by assigning them in the category of special function registers?

a) Internal on-chip RAM b.External off-chip RAM c.Both a & b d.None of the above

5 Which register usually store the output generated by ALU in several arithmetic and logical operations?

a) Accumulator b.Special Function Register c.Timer Register d.Stack Pointer

6 1 byte = _____bit

a) 2 b.4 c.8 d.16

7 Which IO Port can be used for higher address byte with addresses A8-A15?

a) PORT0 b.PORT1 c.PORT2 d.PORT3

8 Registers R0-R31 are used for what type of works?

a) they are used for arithmetic and logic instructions b) they are used for data copy

c) they are used for calculations d) none of the mentioned

9 The largest value that can be loaded in an 8 bit register is?

a) 11111111H b) FH c) FFH d) 00H

10 Which of the following instructions affect the flags of the status register?

a) AND b) INC c) OR d) All of the mentioned

11 When AVR wakes up, then the value of PC becomes?

a) 00H b) 000H c) 0000H d) 00000H

12 Following is not a types of RAM

a) SRAM b.C-RAM c.NV-RAM d.DRAM

13 Following is an AVR Microcontroller

a) AT89C52 b.MT89008 c.Atmega32 d.PIC8008C

14 AVR has _____ general purpose registers

a) 16 b.32 c.64 d.128

15 CLR Rd used to _____ Rd

a) Clear b.Reset c.Zero d.All of the Above

16 The status register in AVR has _____ bit

a) 8 b.16 c.32 d.64

17 _____ is used to convert High Level Language to Low Level Language

a) Assembler b.Compiler c.H to L converter d.None of the Above

18 8051 series has how many 16 bit registers?

a) 2 b) 3 c) 1 d) 0

19 When the microcontroller executes some arithmetic operations, then the flag bits of which register are affected?

a) PSW b) SP c) DPTR d) PC

20 The 8051 microcontroller is of ___pin package.

a) 30 b) 20 c) 40 d) 40

21 Serial port interrupt is generated, if ____ bits are set

a) IE b) RI, IE c) IP, TI d) RI, TI

22 The 8051 microcontroller is a _____ processor.

a) 1 byte b) 2 byte c) 4 byte d) 8 byte

23 The 8051 Microcontroller was developed by_____

a) Phillips b) Microsoft c) Motorola d) Intel

24 How much I/O pins 8051 has?

a) 4 b.8 c.16 d.32

25 How much I/O ports 8051 has?

a) 4 b.8 c.16 d.32