TELANGANA UNIVERSITY
S.S.R. DEGREE COLLEGE, NIZAMABAD (C.C:5029)
VI SEMESTER INTERNAL ASSESSMENT II EXAMINATIONS
ELECTRONICS (8051 Micro Controller & its applications)

I. Answer the following questions

1.8051 μ C (Micro Controller) are manufactured by which of the following companies. ( )

a) Atmel b) Philips c) Intel d) All of the above

2. AT89C2051 has RAM of ( )

a)128 bytes b) 256 bytes c) 64 bytes d) 512 bytes

3. 8051 series has hand many 16-bit registers? ( )

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

4. When 8051 wakes up then OX00H loaded to which resister? ( )

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

5. How many bytes of bit addressable memory is present in 8051 based micro controllers ? ( )

a) 8 bytes b) 32 bytes c) 16 bytes d) 128 bytes

6. On power up, the 8051 uses which RAM location for resisters R0-R7 ( )

a) 00-2F b) 00-007 c) 00-7F d) 00-pF

7. If we push data onto the stack then the stack pointer (SP) ( )

a) Increase with every push b) Decrease with every push

c) Not effected d) None of the above

8. How are the bits of the PSW affected if we select RB2 of 8051 ? ( )

a) PSW.5 = 0 & PSW.4 = 1 b) PSW.2 = 0 & PSW.3 = 1

c) PSW.3 = 1 & PSW.4 = 1 d) PSW.3 = 0 & PSW.4 = 1

9. How are the status of the carry, AC & parity Hag affected if the write instruction ( )

MOV A, # 9CH

ADD A, # 64H

a) Cv = 0, AC = 0, P = 0 b) Cy = 1, AC = 1, P = 0

c) Cy = 0, AC = 1, P = 0 d) Cy = 1, AC = 1, P = 1

10. When the microcontroller executes some arithmetic operations, then the flag bits of which register are affected ( )

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

II. Fill in the Blanks

11. The 8051 has _____ 16-bit counter/Timer.

12. The 8051 can handle _____ interrupt sources.

13. An alternate function of port pin P3.4 in the 8051 is _____

14. The I/O ports that are used as address and data for external memory are _____

15. The 8051 has _____ parallel I/O ports.

16. The total external data memory that can be interfaced to the 8051 is _____

17. Bit addressable memory locations are _____

1 8. The 8-bit address by allows access to an address range of _____

19. The start-conversion on the ADC0804 is done by using _____

20. The number of data registers is _____

III. Answer the following questions in not more than two lines

21. Name the ports of 8051 μ C ?

22. How many SFR's are available in 8051 μ C ?

23. The internal memory capacity of 8051 μ C ?

24. Explain briefly about SCON ?

25. In which SFR register PSW is available ?