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Reg. No. :

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**Question Paper Code: 95303**

B.E. / B.Tech. DEGREE EXAMINATION, DEC 2021

Fifth Semester

Electrical and Electronics Engineering

19UEE503 - POWER SYSTEM ANALYSIS

(Regulation 2019)

Duration: Three hours

Maximum: 100 Marks

Answer ALL Questions

PART A - (10 x 1 = 10 Marks)

- Stack pointer operates in the \_\_\_\_\_ fashion. CO1- R  
(a) FILO      (b) FIFO      (c) LIFO      (d) LILO
- What is the formula to calculate the (kV)B on the LT section? CO1- R  
(a) INTR      (b) TRAP.      (c) RST6.5.      (d) RST6.6.
- LXI H,d16 specifies \_\_\_\_\_ addressing mode CO2- R  
(a) Register      (b) Immediate      (c) Indirect      (d) Implicit
- What is the required baud rate for an efficient operation of serial port devices in 8051 microcontroller? CO2- R  
(a) 1200      (b) 2400      (c) 4800      (d) 9600
- The 8051 has \_\_\_\_\_ parallel I/O ports. CO3- R  
(a) 2      (b) 3      (c) 4      (d) 5
- On power up, the 8051 uses which RAM locations for register R0- R7 CO3- R  
(a) 00-2F      (b) 00-07      (c) 00-7F      (d) 00-0F
- Which of the following is the most commonly used buffer in the serial porting? CO4- R  
(a) LIFO      (b) FIFO      (c) FILO      (d) LILO
- How much time period is necessary for the slave to receive the interrupt and transfer the data? CO4- R  
(a) 4 clock time period      (b) 8 clock time period  
(c) 16 clock time period      (d) 24 clock time period
- What is the capability of ARM7 f instruction for second? CO5- R  
(a) 110 MIPS      (b) 150 MIPS      (c) 125 MIPS      (d) 130 MIPS

10. What is the processor used by ARM7? CO5- R  
 (a) 8-bit CISC (b) 8-bit RISC (c) 32-bit CISC (d) 32-bit RISC  
 PART – B (5 x 2= 10 Marks)
11. What is flag register in 8085 microprocessor? CO1-R
12. Define microcontroller and write any two real time applications of microcontroller. CO2-U
13. List the Interrupts in 8051 Microcontroller CO3-R
14. What is interrupt service Mechanism? CO4-U
15. What is RISC? CO5-U

PART – C (5 x 16= 80Marks)

16. (a) Explain the timing diagram for opcode fetch and IO write machine cycles with neat diagram CO1-App (16)  
 Or  
 (b) Illustrate the pin outs of 8085 with neat sketch. CO1- U (16)
17. (a) Illustrate the architecture of Microcontroller 8051 with functional block diagram CO2- U (16)  
 Or  
 (b) Explain different Addressing Modes of 8051 Microcontroller with examples. CO2- U (16)
18. (a) Explain the Timer / Counter functional unit of Microcontroller 8051 with relevant diagrams CO3- U (16)  
 Or  
 (b) Discuss the internal memory organization of 8051 microcontroller CO3- U (16)
19. (a) Briefly Explain about I/O Ports, Buses and Interrupt handlers that are embedded in a system CO4- U (16)  
 Or  
 (b) Discuss in detail about design issues in Embedded System CO4- U (16)
20. (a) Discuss in detail about the memory organization of PIC micro controller. CO5- U (16)  
 Or

- (b) Explain various operating models of ARM, what is coprocessor? and how it works. Explain the working of MPU and MMU related memory

CO5- U (16)



