NETTUR TECHNICAL TRAINING FOUNDATION
DIPLOMA IN COMPUTER ENGINEERING & IT INFRASTRUCTURE –CP08
III SEMESTER REGULAR & SUPPLEMENTARY EXAMINATION-JAN 2023

Subject: Micro Processor & Micro Controller   **Total Time: 2 Hr.**
Subject Code: CP08309T   **Total Marks: 50 marks**

PART B

1.0 ANSWER ANY EIGHT OF THE FOLLOWING   2*8=16

1.1 Draw and explain the block diagram of CPU.

1.2 List the name of control signal used for the memory interfacing in 8085

1.3 Write the names of special function registers present in 8085.

1.4 Write the function of ALE signal in 8085 Processor

1.5 Write the names of addressing modes of 8085.

1.6 What is the difference between Interrupt and Polling?

1.7 Write the names of all Instruction set of 8051 Controller

1.8 How many interrupts are available in 8051? List out the name of interrupts.

1.9 Draw the block diagram to interface the DC motor with 8051 controller

1.10 Write the name of interrupts available in 8085.

2.0 ANSWER ANY SIX OF THE FOLLOWING   3*6=18

2.1 Explain the term microprocessor with block diagram.

2.2 Draw the memory model for 4 X 8 bit Register in 8085

2.3 With neat diagram explain the operation of Stack and Stack pointer.

2.4 Explain the vector and non-vector interrupts.

2.5 Write any six features of 8051.

2.6 Write the functions of   a) PSEN   b) EA   c) ALE pins of 8051.

2.7 Explain the simplex, half duplex and full duplex transmission with example.

2.8 Write the functions of HOLD & HLDA signals of 8085.

3.0 ANSWER ANY FOUR OF THE FOLLOWING   4*4=16

3.1 Explain the arithmetic and logical instruction set with examples in 8085

3.2 Draw the architecture of 8085 processor

3.3 Write the difference between Microprocessor and Microcontroller.

3.4 List down the alternate functions of PORT 3 in 8051 controller

3.5 Explain all addressing modes of 8051 with example.

3.6 Write a program to generate the Square Wave on P1.0.

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III SEMESTER SUPPLEMENTARY EXAMINATION – JAN 2023

Subject: RDBMS   **Total Marks : 50**
Subject Code: CP00 03 02   **Total Time : 2H**

PART B

1.0   ANSWER ANY EIGHT OF THE FOLLOWING   2*8=16
1. 1   What is schema?
1. 2   Write a program to add two numbers.
1. 3   What is BCNF?
1. 4   Define truncate with syntax.
1. 5   What is weak entity?
1. 6   What is SQL?
1. 7   What is object oriented model?
1. 8   What is DML? Give example.
1. 9   Write the syntax of SELECT and INSERT.
1. 10   What is data?

2.0   ANSWER ANY SIX OF THE FOLLOWING   3*6=18
2. 1   What is Relationship in ER Diagram?
2. 2   List any two datetime type and explain
2. 3   What is difference between clustered and non-clustered index?
2. 4   What are the problems if data are not atomic?
2. 5   When not to use a database?
2. 6   What is the syntax of try.. Catch block.
2. 7   What is Data Administration and Data Base Administration?
2. 8   Explain about data abstraction.

3.0   ANSWER ANY FOUR OF THE FOLLOWING   4*4=16
3. 1   What is data security? What are the threats to data security?
3. 2   Explain the components of ER-diagram.
3. 3   What is a constraint? What are the different types? Give example and syntax of each
         type.
3. 4   What are categories of data model?
3. 5   What is a subquery? What are types of subqueries? Explain with example.
3. 6   What are aggregate functions? Define and give examples.

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