

**4E1304**

Roll No. \_\_\_\_\_

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**B. Tech. IV - Sem. (Main / Back) Exam., - 2025**  
**Artificial Intelligence and Data Science**  
**4AID3-04 Microprocessor & Interfaces**  
**CS, AID, CAI, CCS, CDS, CIT**

**Time: 3 Hours****Maximum Marks: 70***Instructions to Candidates:*

*Attempt all ten questions from Part A, five questions out of seven questions from Part B and three questions out of five questions from Part C.*

*Schematic diagrams must be shown wherever necessary. Any data you feel missing may suitably be assumed and stated clearly. Units of quantities used/ calculated must be stated clearly.*

*Use of following supporting material is permitted during examination. (Mentioned in form No. 205)*

1. NIL2. NIL**PART - A****[10×2=20]****(Answer should be given up to 25 words only)****All questions are compulsory**

- Q.1 Discuss the concept of static RAM.
- Q.2 Differentiate between microprocessor and microcontroller.
- Q.3 What do you mean by stack pointer?
- Q.4 Define instruction cycle.
- Q.5 Explain the purpose of READY and HOLD pins of 8085 MP.
- Q.6 Draw the flag register of 8085 and explain.
- Q.7 What is WZ pair in 8085 microprocessor?

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