

G.R. No.	
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DECEMBER 2021 - ENDSEM EXAM
S. Y. B. TECH. (AI&DS) (SEMESTER - I)
COURSE NAME: Microprocessors
COURSE CODE: ADUA21203
(PATTERN 2020)

Time: [1Hr]

[Max. Marks: 30]

(*) Instructions to candidates:

- 1) Answer Q.1 OR Q.2, Q.3 OR Q.4, Q.5 OR Q.6.
- 2) Figures to the right indicate full marks.
- 3) Use of scientific calculator is allowed
- 4) Use suitable data where ever required

Question No.	Question Description	Marks
Q.1 a	Distinguish features of 8086 and 80386 microprocessors.	[4]
Q.1 b	Express your views about various 80386 control transfer instructions used in assembly language programming	[6]
OR		
Q2 a	Identify different data types of 80386 & elaborate about the same.	[4]
Q2 b	Select appropriate instructions for string operations elaborate with example.	[6]
Q.3 a	Identify various fields in selector and elaborate them	[4]
Q.3 b	Choose appropriate address translation mechanism to convert linear address to physical address and elaborate various steps in the process	[6]
OR		
Q.4 a	List various data structures involve in segment translation with appropriate diagram.	[4]
Q.4 b	Express role of TLB in Paging mechanism with suitable diagram	[6]
Q.5 a	Identify various protection related field at page level	[4]
Q.5 b	Discuss the working of privilege data references with neat diagram.	[6]
OR		
Q.6 a	Discover and established the association of different privilege level of 80386.	[4]
Q.6 b	Express your views on relationships with CPL and DPL, also highlight on privilege check for control transfer of call gate.	[6]

(*) Course coordinator can change instructions as per course requirement