## Code No: 134AK JAWAHARLAL NEHRU TECHNOLOGICAL UNIVERSITY HYDERABAD B.Tech II Year II Semester Examinations, May - 2019 **COMPUTER ORGANIZATION** (Common to CSE, IT) Time: 3 Hours Max. Marks: **Note:** This question paper contains two parts A and B. Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have a, b as sub questions. (25 Marks) What is the purpose of BUN instruction? 1.a) [2] Define computer organization, computer architecture. [3] b) c) Contrast 8086 minimum mode with maximum mode. [2] How an address is latched in 8086? d) [3] What is the need of a linker? [2] e) What is the difference between a macro and a procedure? f) [3] What is the disadvantage of strobe method? [2] g) h) Provide the hardware for signed-2's complement addition and subtraction. [3] Define miss penalty for cache memory. i) [2] j) Draw the system bus structure for multiprocessors. [3] PART - B (50 Marks) List the registers for the basic computer and give their functionality in program. execution. [10] OR 3. Describe the micro programmed control organization and compare its advantages over hardwired control. [10]Evaluate the following arithmetic statement using zero, one, two and three address instructions. Use the conventional symbols and instructions. OR 5. Does 8086 support instruction pipelining? Justify your answer with relevant example instructions. Develop an assembly language program to find out numbers odd and even numbers in a

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OR

Elaborate on the techniques used to pass parameters to procedures in assembly language

[10]

given series of 16-bit hexa decimal numbers.

program.

