



DHARMSINH DESAI UNIVERSITY, NADIAD
FACULTY OF TECHNOLOGY
B.TECH. SEMESTER IV [IT]
SUBJECT: (IT402) COMPUTER ORGANIZATION

Examination	: Block Exam	Seat No.	: _____
Date	:	Day	: Monday
Time	:	Max. Marks	: 36

INSTRUCTIONS:

1. Figures to the right indicate maximum marks for that question.
 2. The symbols used carry their usual meanings.
 3. Assume suitable data, if required & mention them clearly.
 4. Draw neat sketches wherever necessary.
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Q. Do as directed.

- 1 (a Explain Real address and virtual address. [2]
)
(b Explain three speedup techniques. [2]
)
(c Write steps involved in execution of CLEAR [2]
) instruction.
(d State the limitations of programmed IO method. [2]
)
(e What do you mean by page and page frames? [2]
)
(f "Branch instructions reduce the efficiency of [2]
) instruction pipelining." Justify

Q. Attempt the following questions. [12]
2]

- (a A file contain the word "computer [6]
) organization".suppose each character occupy 5 bit
.calculate file size and average opcode length for
both cases fixed and variable length.Comment which
is better.
(c Explain with diagram segmentation with paging [6]
) technique.

- Q. [6]**
3) Explain the IBM System /360 in detail with diagram.
(b What are the basic steps for DMA transfer process? [6]
) Explain with diagram