Total No. of Questions : 5

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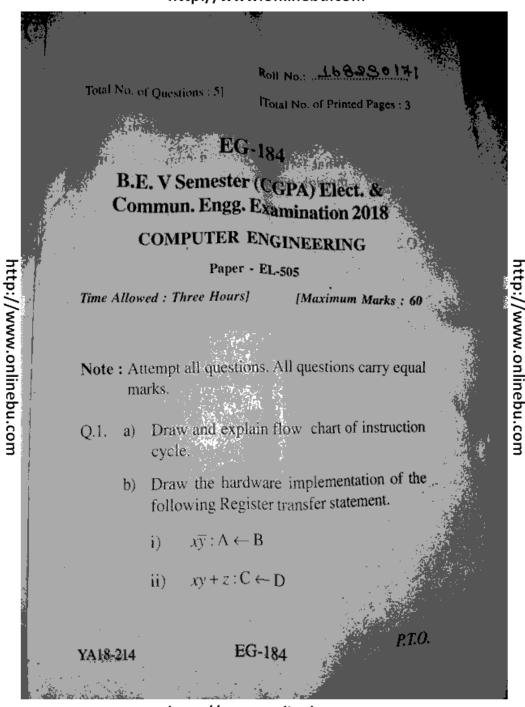
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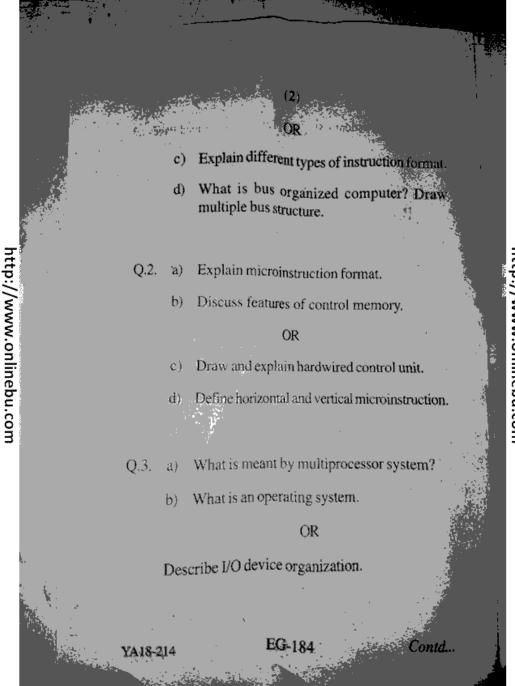
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b) What do you understand by I/O bound jobs and CPU bound jobs? What types of services are provided by an operating system? b) What is meant by non-preemptive scheduling? What are the factors that influence the selection of a scheduling technique? What do you understand by the following: Process Process state iii) Process control block What is a Deadlock? How is such problem solved? Explain the dining philosopher problem with its solution. Explain semaphores. Differentiate between logical and physical address space. Q:5. a) Explain contiguous and non-contiguous memory allocation. What is understood by page missing or segment missing What is best fit strategy? What is dynamic selection? YA17-69 EKS-174

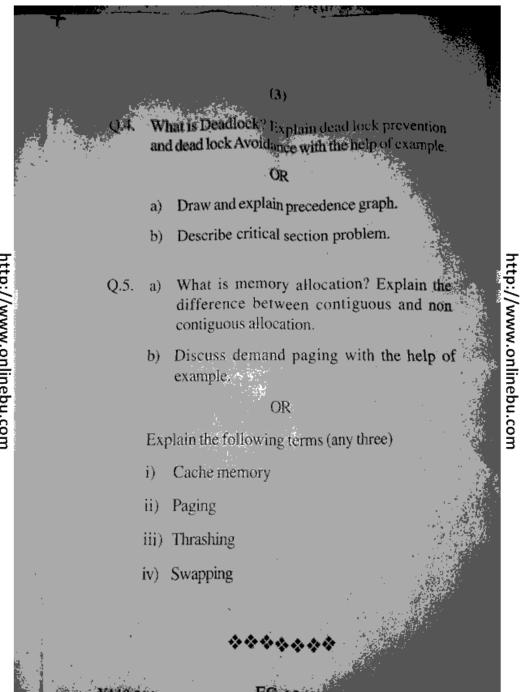
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EC-158

B.E. V Sem. (CGPA) CSE Exam.-2012-13

Total No. of Printed Pages : 2

Total No. of Questions: 6

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Define memory address register.

Explain register transfer language.

OR

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(2) Q.3. Explain various branching technique used in microprommed control unit. What is microprogram sequencer? What are the design considerations for microprom Q.4. Draw and explain Arithmetic logic unit design. 10 10 Explain Multiplication and Division Algorithm. Define Data Communication. Explain the component of data communication. OR What is interrupt? Explain with it various types. 10 Q.6. What is memory? Explain different memory management technique. OR What are the memory performance parameters explain. 10 EC-158

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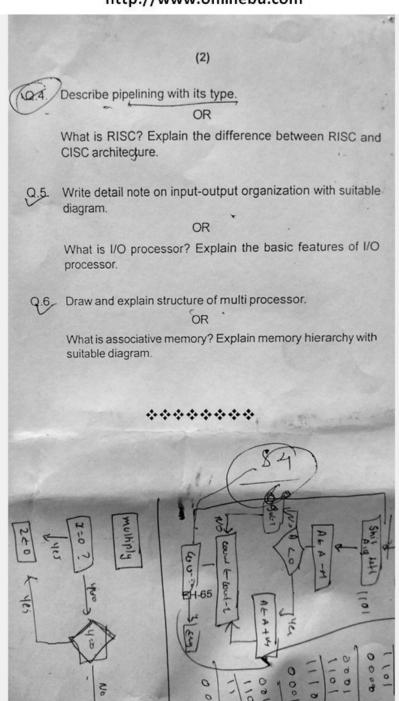
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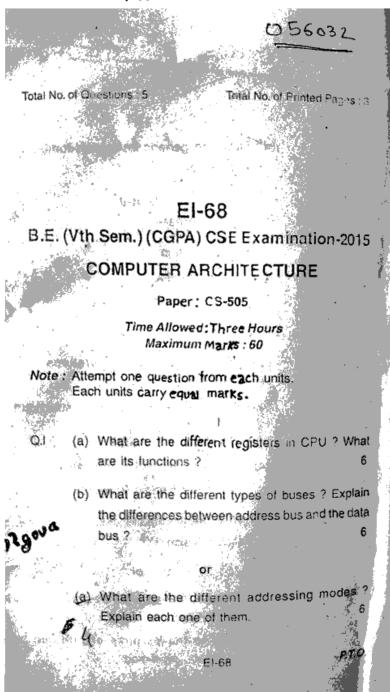
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EH-65



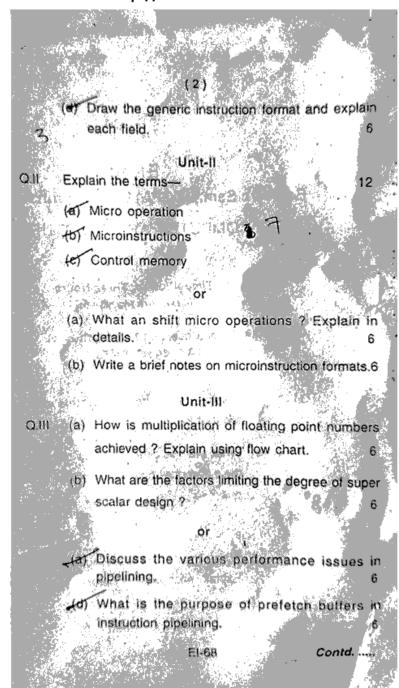
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(3)Unit-IV What is a program interrupt? Explain the program flow of control without and with interrupts with the help of diagram. -What is the role of a priority interrupt? Explain 6 (a) Draw block diagram of computer with 1/0 processor and explain how data transfer s achieved between them. (b) Write a brief notes on different modes of data communications Unit-V عا (a) What is meant by inclusion, coherence and locality in a memory hierarchy ? What is memory interleaving ? How is it different from cache memory ? (a) How memory decoder is used to connect CPU with RAM? Explain direct mapping and set associative mapping in associative memory EI-68 Copies 100

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Total No. of Questions: 5

Total No. of Printed Pages: 3

# EK-213

B.E. (Vth Sem.) (CGPA) C.S.E. Exam.-2016

# COMPUTER ARCHITECTURE

Paper - CS-505

Time Allowed: Three Hours Maximum Marks: 60

Note: Attempt all questions. All questions carry equal marks.

# Unit-I

- (a) What are the different addressing modes? Q.I Explain each one of them.
  - (b) Explain architecture of computer organization with neat & clean diagram.

(a) Differentiate memory address register and data register. Also explain program counter briefly.

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(2)

(b) Explain instruction set design issue in detail.

#### Unit-II

- (a) Write a brief notes on micro-instruction Q.li formata.
  - (b) Explain micro program sequencer and control memory in detail.

- (a) Differentiate hardwired control and micro programmed control organization briefly.
- (b) What is instruction sequencing and instruction interpretation.

## Unit-III

- (a) Differentiate RISC and CISC architecture. Q.III
  - (b) Explain branch handling techniques.

- (a) Describe Instruction Pipelining briefly:
- (b) Discuss the various performance issues in pipelining.

# Unit-IV

- (a) Explain I/O interfacing standards.
  - (b) What is DMA? Explain with diagram.

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# http://www.onlinebu.com (3)or (a) What is data communication? Describe the process of sender to receiver. (b) Differentiate program interrupt and priority interrupt briefly. Unit-V (a) What is memory interleaving? How is it different from cache memory? (b) Explain memory allocation and management policies. or (a) Explain basic concepts of multiprocessing. Also describe multiprogramming. (b) Differentiate virtual and associative memory briefly.

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Total No. of Questions: 5

Paper: CS-505

Time Allowed: Three Hours

Maximum Marks: 60

Note: Attempt all questions.

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### Unit - I

Q.1.	a)	What are the different types of buses? Explain the	е
		differences between address bus and the data bus.	6

Explain program counter and accumulator.

OR

Explain instructions Fetching, Decoding and Execution.

What are the different registers in CPU? What are its functions?

### Unit - II

Q.Z.	a)	write a brief flotes of fill cromstruction formats.	
	b)	Explain microinstruction encoding briefly.	(

OR

- Explain control memory and instruction interpretation. 6
- What are shift micro operations? Explain in detail.

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## Unit - V

Q.5.	Q.5.	a)	Explain direct mapping and set associative mapping	i
			associative memory.	

b) Explain locality of reference in memory Hierarchy.

Explain:

Memory Hierarchy

RAM and ROM

Virtual memory

YA17-105