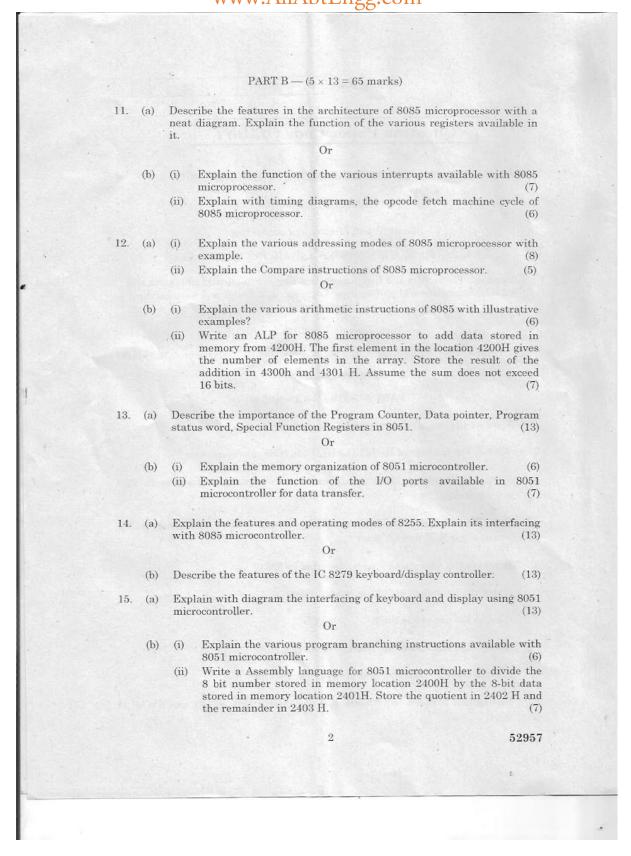
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B.E./B.Tech. DEGREE EXAMINATIONS, APRIL/MAY 2019.  Fifth/Sixth Semester  Electrical and Electronics Engineering  EE 6502 – MICROPROCESSORS AND MICROCONTROLLERS  common to Electronics and Instrumentation Engineering/Instrumentation and Control Engineering/Manufacturing Engineering/Robotics and Automation  Engineering)  (Regulation 2013)  e: Three hours  Maximum: 100 marks  Answer ALL questions.  PART A — (10 × 2 = 20 marks)  Mention the use of ALE in 8085 microprocessor.  What is the function of HOLD and HLDA in 8085 microprocessor?
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Control Engineering/Manufacturing Engineering/Robotics and Automation Engineering)  (Regulation 2013)  Three hours  Maximum: 100 marks  Answer ALL questions.  PART A — $(10 \times 2 = 20 \text{ marks})$ Mention the use of ALE in 8085 microprocessor.
: Three hours
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What is the function of HOLD and HLDA in 8085 microprocessor?
What is a Subroutine. Mention the instructions related to subroutine in $8085$ microprocessor?
If the $8085$ adds $87H$ and $79H$ , specify the contents of the accumulator and the status of the S, Z, and CY flag?
What are the addressing modes supported by 8051?
Name the interrupts of 8051 microcontroller.
What is the use of 8251 IC?
What is the function of the DMA controller?
List the 8051 instructions that always clear the carry flag.
Distinguish between the functions of the instructions XCHG and SWAP of $8051$ .

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PART C — $(1 \times 15 = 15 \text{ marks})$	
16. (a) With a neat diagram explain how stepper motor can be interfaced with	
8085 microprocessor. Give both program and the interfacing circuit.	
Or	
(b) Differentiate between the following instructions clearly	
(i) Push and POP $(5 \times 2 = 10)$	
(ii) CALL and Jump	
(iii) ADD and ADC	
(iv) INC and INX (v) MOV B, B and MOV B, A	
(vi) What is the general format of an 8085 instruction set? (5)	
(9)	
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