## **Diplete - ET (OLD SCHEME)**

Student Bounty.com Code: DE10 Subject: COMPUTER ENGINEERING Time: 3 Hours

**JUNE 2011** 

**NOTE:** There are 9 Questions in all.

- Question 1 is compulsory and carries 20 marks. Answer to Q.1 must be written in the space provided for it in the answer book supplied and nowhere else.
- The answer sheet for the Q.1 will be collected by the invigilator after 45 Minutes of the commencement of the examination.
- Out of the remaining EIGHT Questions answer any FIVE Questions. Each question carries 16 marks.
- Any required data not explicitly given, may be suitably assumed and stated.

## 0.1 Choose the correct or the best alternative in the following:

 $(2\times10)$ 

- The stack pointer in the 8085 microprocessor is a a.
  - (A) 16 bit register that points to the stack memory.
  - **(B)** 16 bit accumulator.
  - (C) Memory location in the stack.
  - **(D)** Flag register used in the stack.
- b. A multiprogramming system is one that can
  - (A) Compute many programs simultaneously.
  - **(B)** Share hardware resources with many programs simultaneously.
  - (C) Run very fast.
  - **(D)** Use many operating systems.
- A computer program that converts an entire program into machine language at c. one time is called a/an
  - (A) Assembler.

(B) Loader.

(C) Compiler.

(**D**) Interpreter.

- d. A stack organized computer has
  - (A) Three Address instructions

**(B)** Two - Address instructions.

(C) One - Address instructions.

(**D**) Zero - Address instructions.

- The register which keep track of the address of the instruction to be executed e. next is
  - (A) Index Register

(B) Memory Address Register

(C) Program Counter

(D) Instruction Register

			à	E.
f.		RISC stands for		outer ip
			uter (B) Rapid Instruction Set Comp puter (D) Ruby Integrated Silicon Ch	outer ip
g.		Intel 8086 is a		
		<ul><li>(A) 8-bit microprocessor.</li><li>(C) 16-bit microprocessor.</li></ul>	<ul><li>(B) 32-bit microprocessor.</li><li>(D) 64-bit microprocessor.</li></ul>	
h.		MS-DOS is a operating system.		
		<ul><li>(A) 8 Bit</li><li>(C) multi-tasking</li></ul>	<ul><li>(B) Single-tasking</li><li>(D) multiuser</li></ul>	
i.		An instruction in a programming language that is replaced by a sequence of instructions prior to assembling or compiling is		
		<ul><li>(A) Procedure name.</li><li>(C) Label.</li></ul>	<ul><li>(B) Macro.</li><li>(D) Symbol.</li></ul>	
j.		CVT can operate with an input voltage range as wide as or more of the nominal voltage.		
		(A) ± 20% (C) ± 50%	( <b>B</b> ) ± 40% ( <b>D</b> ) ±80%	
		Answer any FIVE Questions o Each question carri		
Q.2	a.	What is AGP? What is it used for?	,	(4)
	b.	b. Explain about the access Mechanism and working principle of an optical disk and it's types in brief. (6)		
	c.	Define any <b>FOUR</b> of the following  (i) Access time  (iii) Seek time  (v) Transfer rate	g terms in context of disk storage (ii) Spin-up time (iv) Latency Time	(6)
Q.3	a.	Describe about the DMA control initiating a DMA transaction.	oller -8237 and the steps involved	in (8)
	b.	Define BIOS. Explain about the fu in brief.	nction and essentiality of BIOS in a I	PC (8)
0.4	а	Explain about Windows NT Opera	ting System Also list the main featur	es

**(6)** 

DIDIETE - ET (OI D SCHEME)

of Windows NT.

DE10 / IIINE - 2011

Student Bounty.com b. Define VDU. Explain working principal of CRT Monitor with the help of its diagram. a. Explain about the construction and working principle of IDE hard disk **Q.5** b. Explain about the scope of standard RS-232-C. a. Write short note on Pixels. Also define the term Resolution. **Q.6 (6)** b. Define Programming language and explain about their classification in brief. **(10) Q.7** a. Explain about the different generation classification of computers. **(8)** b. Please provide the pin configuration of Intel 8085. **(8) Q.8** a. What is difference between 8086 and 8088 microprocessor? **(8)** b. Define Addressing mode. Explain various addressing modes used in 8086. **(8) Q.9** a. Explain about the following in brief: (i) ISA Bus (ii) EISA Bus **(10)** 

b. Please provide a short description about Motorola microprocessors.

**(6)**