ROLL NO.

Code: AE13 Subject: COMPUTER ENGINEER

## AMIETE - ET (OLD SCHEME)

Time: 3 Hours OCTOBER 2012

Max. Marks: 10

PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

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.

Q.1	Choose the correct or best alternative in the following:				$(2\times10)$
	a.	A computer assisted method for the recording and analyzing of existing or hypothetical systems is			
		<ul><li>(A) Data transmission</li><li>(C) Data capture</li></ul>	( <b>B</b> ) Data ( <b>D</b> ) Data	a flow a processing	
	b. Which part interprets program instructions and initiate control operation			?	
		<ul><li>(A) Input</li><li>(C) Logic unit</li></ul>	( <b>B</b> ) Stora ( <b>D</b> ) Cont	_	
	c.	. Programmable interval timer 8254 has number of counters			
		(A) 3 (C) 4	( <b>B</b> ) 2 ( <b>D</b> ) 5		
	d.	d. Which computer has been designed to be as compact as possible?			
		<ul><li>(A) Mini</li><li>(C) Micro computer</li></ul>	( <b>B</b> ) Supe ( <b>D</b> ) Mair	er computer nframe	
	e.	e. The symbols used in an assembly language are			
		<ul><li>(A) Codes</li><li>(C) Assembler</li></ul>	( <b>B</b> ) Mne ( <b>D</b> ) All (	emonics of the above	
	f.	f. Any storage device added to a computer beyond the immediately usable main storage is known as			
		<ul><li>(A) Floppy disk</li><li>(C) Backing store</li></ul>	( <b>B</b> ) Hard ( <b>D</b> ) Pund	l disk ched card	
	g. A system program that combines the separately compiled modules of program into a form suitable for execution				of a
		<ul><li>(A) assembler</li><li>(C) cross compiler</li></ul>	( <b>B</b> ) linki ( <b>D</b> ) load	ng loader and go	
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memory?

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**(4)** 

**(4)** 

2

c. Differentiate between Cache Memory & Virtual Memory.

Student Bounty Com Code: AE13 **Subject: COMPUTER ENGINEER** a. What is an Optical Scanner? Explain how it works. b. Differentiate between Printers & Plotters. c. How to Interface the 8085 Microprocessor with peripherals? **Q.7** a. Explain the different advantages of Pentium processor (P6) and also write different additional functionality of P6 with comparisons to other processors. **(8)** b. Explain any two operating modes of 80386 processor. **(8) Q.8** a. What is Bus? Summarize the different types of buses and uses of buses in computer? Explain some of the common expansion bus types that have ever been used in computers? **(6)** b. Draw the basic architecture of 8088 processor and explain different bus registers and flags in 8088 processor? (10)0.9 a. Write short note on following: (i) Addressing modes in 8088 processor **(4)** (ii) Direct Memory Access (DMA) **(4)** 

b. Explain 8255-Programmable Peripheral Interface (PPI) with the help of

block diagram.

**(8)**