ROLL NO.

Code: AC78 Subject: ADVANCED MICROPROC

AMIETE - CS (NEW SCHEME)

JUNE 2012 PLEASE WRITE YOUR ROLL NO. AT THE SPACE PROVIDED ON EACH PAGE

Student Bounty.com IMMEDIATELY AFTER RECEIVING THE QUESTION PAPER.

NOTE: There are 9 Questions in all.

Time: 3 Hours

- Ouestion 1 is compulsory and carries 20 marks. Answer to 0.1 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

Q.1	Choose the correct or the best alternative in the following:		$(2\times10$
	a. The address bus of 8088 is		
	(A) 8 bit (C) 4 bit	(B) 16 bit(D) none of the above	
	b. The number of control flags in 8086 is		
	(A) 3 (C) 8	(B) 5(D) none of the above	
	c. MOV [DI], OAC24 H is a		
	(A) 2 byte instruction.(C) 4 byte instruction.	(B) 3 byte instruction.(D) none of the above	
	d. The TEST instruction perfo	rms bitwise of the two operands	S.
	(A) OR. (C) XOR.	(B) AND.(D) none of the above	
	e. 80287 is a		
	(A) processor(C) Micro controller	(B) Co- processor(D) none of the above	
	f. REP is a		
	(A) instruction(C) post fix	(B) Prefix(D) none of the above	

Q.2 a. Explain the following pins

(10)

- (i) $\overline{BHE}/S7$
- (ii) MN/\overline{MX}
- (iii) DT/\overline{R}
- (iv) $\overline{\text{DEN}}$
- (v) TEST
- b. Explain any three addressing modes in a processor. Give an example for each.

(6)

Q.3 a. Give an example to illustrate the following:-

(8)

- (i) Data transfer instruction between register and memory
- (ii) Data transfer instruction between Segment register and memory
- (iii) Data transfer with I/O ports
- (iv) Data transfer using exchange instruction.
- b. Explain AAA and DAA instructions with example.

(4)

c. Describe the working of MOVS and CMPS instructions.

(4)

(ii) 80386