



EDO UNIVERSITY, IYAMHO, EDO STATE
FACULTY OF SCIENCE
DEPARTMENT OF ICT & MATHEMATICS

COURSE TITLE: Assemble Language Processing

COURSE CODE: CSC 224

SEMESTER/SESSION: Second Semester 2016/2017 EXAMTIME ALLOWED: 2: 30hr

INSTRUCTION: Answer any 5 (Five) questions.

1. (a) Compare Assemble Language to High-Level Languages (6marks)
- (b) Convert the following Hexadecimal to Decimal (6marks)
 - i). Hex 1234
 - ii). Hex 3BA4
- (c) Convert **422** Decimal to Hexadecimal (2marks)

2. (a) Add the Hexadecimal below (10marks)

36	28	28	6A
42	45	58	4B

- (b) Subtract the Hexadecimal below (4marks)

C6	75
A2	47

3. (b) Discuss three (3) operand type in assembly language program (6marks)

- (b) Find the truth Table of the Boolean function (8marks)

X	Y	S	$Y \wedge S$	$\neg S$	$X \wedge \neg S$	$(Y \wedge S) \vee (X \wedge \neg S)$
F	F	F				
F	T	F				
T	F	F				
T	T	F				
F	F	T				
F	T	T				
T	F	T				
T	T	T				

4. (a) Draw a simplified Pentium CPU Block diagram (9marks)

- (b) With the aid of a diagram explain basic Microcomputer design (5marks)

5. (a) Using operator and precedence level evaluate the expression (5marks)

Expression	Value
16/5	
$-(3+3)*(6-1)$	
$-3+4*6-3$	
25mod3	
1234mod 4	

(b) With the aid of diagram describe the steps from creating a source program through executing the compiled program (9mark)

6. (a) With the aid of diagram describe the assemble Language concept MAP. (8mark)

(b) Find the truth Table of the Boolean function $\neg X \vee Y$ (6marks)

X	$\neg X$	Y	$\neg X \vee Y$
F		F	
F		T	
T		F	
T		T	

7. (a) Explain Reserved Words and Identifier (6mark)

(b) Show the order of Precedence in the following Expression (8mark)

Expression	Order of Operations
$\neg X \vee Y$	
$\neg(X \vee Y)$	
$X \vee (Y \wedge Z)$	

