LAGOS CITY POLYTECHNIC, IKEJA
SCHOOL OF ENGINEERING AND APPLIED SCIENCE
DEPARTMENT OF COMPUTER SCIENCE
2015/2016 SEMESTER EXAMINATION

COURSE TITLE: ASSEMBLY LANGUAGE NO OF QUESTION: 6
COURSE CODE: COM 323 TIME: ALLOWED: 2HRS
FOR WHOM: HND YR II CS P/T
INSTRUCTIONS: Answer any four Questions

1. (a) 39FFH
+ B25H

(b) A0021H
49H

(c) Convert to Hex 110000111011

(d) Convert to Binary 567.B

2. (a) Write an 8080 8085 program to output 4 on the screen.
(b) Explain the following:
(i) MOV (ii) ADD (iii) SUB (iv) IN
(v) OUT (vi) HLT

3. (a) List and explain the ten registers in 8080/8085 Assembly Language
(b) Name the general purpose registers
(c) Name the register pairs
(D) Name and two-byte registers

4. Write an 8080/8085 routine to divide the value in the accumulator by 10. (Assume the dividend is a already in A and is between 10 and 255.)

5. Write the correct instruction or routine for each of the following functions
(a) Move the value from register C to register L.
(b) Move the value from register B to memory.
(c) Move the value from memory to register D
(d) Add 5 to the value in register A.
(e) Add the value in register C to the value in register A.

6. Code directives for each of the following functions.
(a) Define an uninitialized ten by the data area named QUES7A.
(b) Define a data named QUES7B initialized to 5BH.
(c) Define a string of initialized bytes containing the digit 0 through 9 in pure binary code, not ASCII. Name the area DIGITS
(d) Define a string of initialized bytes containing SElF-TEST. Name the area QUIZ.
(e) Set the label ZEROS equal to zeros.