



CRAWFORD UNIVERSITY, FAITH CITY, IGBESA

**COLLEGE OF NATURAL AND APPLIED SCIENCES
DEPARTMENT OF COMPUTER AND MATHEMATICAL SCIENCES
HARMATTAN SEMESTER
SESSION: 2018/2019**

**COURSE CODE: CSC205
COURSE TITLE: STRUCTURE PROGRAMMING
UNITS: 3
TIME: 3HOURS**

SECTION A (ANSWER ALL)

1. a. You are employed as a programmer to develop a payroll system for Crawford University. Explain with the aids of diagram to the management all steps involve in developing the program. 3marks
- b. In an attempt to award **CRAWFORD UNIVERSITY** scholarship, you are employed as a programmer to help in selecting student based on their respective performance in a class of 200 students based on their structure programming examination score performance. Write a C program to
 - i. Store the student names and scores
 - ii. Display the name and score of student whose score is between 70 to 100
 - iii. Count the number of student whose score is below 40
 - iv. Find the average score of student whose score is below 50
 - v. Sort student score in ascending order.

Note: (All output should be written in a text file called "information.txt") 10marks

- c. Write a C function code to three numbers together. 2marks

SECTION B ANSWER ANY THREE QUESTIONS

- 2.a. State five advantages of structure programming 5marks
- b. Write a C program to sum up all multiples of 10 between 1 to 5000 inclusively except 100. 5marks
- c. Explain why you will use C over any other programming language. 5marks
3. a. Explain the following with aids of programming sample. i. External variables ii Local variables
iii. Structure iv. Pointers v. Union 5marks
- b. Write C function program to find the sum of odd numbers between 1-100. 6marks
- c. What are rules in naming variables? 4marks
4. a. Write a program to grade 200 hundred students offering 8 courses using the grading system below. 8marks
- b. Explain the use of break and continue statement in c programming 2marks
- c. Write a simple program to write "I love c programming" into a file called "input.txt" 5marks

| Score | Grade | Grade point |
|--------|-------|-------------|
| 70-100 | A | 3.0 |
| 60-69 | B | 2.0 |
| 40-59 | C | 1.0 |
| 0-39 | D | 0.0 |

- 5a. Write a C program to sum up 30 terms of this series 4,5,9,14.....
b. Explain how function works in C programming
c. Write a C function program to find factorial of any integer number

6marks

4marks

5marks

Best of luck!!!!!!

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