



UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2008/2009

SUBJECT NAME : **COMPUTER PROGRAMMING**
SUBJECT CODE : **BIT 1033**
COURSE : **1 BIT**
EXAMINATION DATE : **APRIL/MAY 2009**
DURATION : **3 HOURS**
INSTRUCTION : **ANSWER ALL QUESTIONS.**

THIS PAPER CONTAINS FOUR (4) PAGES

SECTION A

Instruction: Answer **ALL** questions.

Q1 Give definition for the following terms:

- (a) Pseudo Codes (2 marks)
- (b) Source Codes (2 marks)
- (c) Compiler (1 mark)

Q2 Identify whether the following variables are valid or invalid:

- (a) square1
 - (b) float
 - (c) reserved_word
 - (d) My variable
 - (e) 2tothepowerof2
- (5 marks)

Q3 Given $x = 3$ and $a = 14$, what is the value of y when

$$y = (2 * x) * (a - x) - 6 * (a/2);$$

(4 marks)

Q4 Write the correct assignment in C for the following expressions:

- (a) $3b - 2dc$
 - (b) $\frac{xy - y}{x - y} + x$
 - (c) $(2cd) - (4ab - 2dc)$
- (6 marks)

Q5 Give the value for n and z for the following statements:

```
int k = 4, m = 7;
int n, z;
```

```
n = k - m;
z = n % 2;
```

(4 marks)

Q6 Give the correct output for the following statements:

```
for ( i = 2; i <= 5; i ++)  
{  
    printf("%3d", i);  
    for (j = 1, j <= 5; j++)  
        printf("%5d", i*j);  
    printf("\n");  
}
```

(6 marks)

Q7 Give the correct output for the following C program:

```
#include <stdio.h>  
#include <string.h>  
void main()  
{  
    char *string = "This is a string";  
    char *ptr;  
    ptr = strchr(string, 's');  
    if (ptr)  
    {  
        puts("The character is found. \n");  
        puts(ptr);  
    }  
    else  
        puts("The character was not found. \n");  
}
```

(4 marks)

Q8 The following information is for the data of the book:

Book
Author
ISBN
Publisher
Year

By using **struct**, write the data of the Book.

(6 marks)

SECTION B

Instruction: Answer **ALL** questions.

Q9 Write a C program to display the following output:

```
-----  
Computer Programming  
Using Borland C  
-----
```

(5 marks)

Q10 Write a C program to display the first ten odd numbers.

(10 marks)

Q11 Write a C program to read ten numbers from a file and print the sum and average of these numbers to the screen.

(15 marks)

Q12 Write a C program that will

- (a) Read twenty numbers and store these numbers in an array.
- (b) Determine and return the largest (max) number from the twenty numbers using function **max**.
- (c) Determine and return the smallest (min) number from the twenty numbers using function **min**.

(30 marks)