

UNIVERSITI TUN HUSSEIN ONN MALAYSIA

FINAL EXAMINATION SEMESTER II SESSION 2016/2017

TERBUKA

COURSE NAME

: COMPUTER PROGRAMMING

COURSE CODE

: BIT 10303

PROGRAMME CODE

: BIT

EXAMINATION DATE

: JUNE 2017

DURATION

: 2 HOURS AND 30 MINUTES

INSTRUCTIONS

: A) ANSWER ALL QUESTIONS

B) PLEASE WRITE YOUR

ANSWERS IN THIS QUESTION

BOOKLET

THIS QUESTION PAPER CONSISTS OF TEN (10) PAGES

CONFIDENTIAL

(2.18) in the TI MOHANE.

[S. 1807]
[J. 1807]

SECTION A

Instruction: Circle the **BEST** answer.

- Q1 What is pointer?
 - A. A keyword used to create variables.
 - B. A variable that stores address of an instruction.
 - C. A variable that stores address of other variable.
 - D. All of above.

(1 mark)

- Q2 What data type of address stored in the pointer variable?
 - A. Integer
 - B. Floating
 - C. Array
 - D. Character

(1 mark)

Q3 Give the right statement if the following statements are combined into one.

```
char *p;
p = (char*) malloc(100);
```

- A. char p = *malloc(100);
- B. char *p = (char) malloc(100);
- C. char *p = (char*) malloc(100);
- D. char $p = (char^*)(malloc^*)(100);$

(1 mark)

Q4 Point out the error in the following statements.

```
int main() {
  int a=10;
  void f();
  a=f();
  printf("%d\n",a)
  return 0; }

void f() {
  printf("Hi"); }
```

- A. Error: Not allowed assignment.
- B. Error: Doesn't print anything.
- C. No error.
- D. None of above.

(1 mark)

Q5 Which of the following is correct syntax to send an array as parameter to function?

```
A. func(array);
B. func(*array);
C. func(array[size]);
D. None of above.
```

(1 mark)

Q6 What is the output of the following statements?

```
int x =5;
void f();
int main() {
  int x = 9;
  f();
  printf("%d",x);}

void f() {
  x=4; }
```

- A. 5
- B. 4
- C. 9
- D. None of above.

TERBUKA

(1 mark)

Q7 Which function is not called in the following statements?

```
void first()
  { printf("first"); }
void second()
  { first(); }
void third()
  {second(); }
int main()
  { third(); }
```

- A. first()
- B. second()
- C. third()
- D. None of above.

(1 mark)

- **Q8** Which of the following operator is used to access data members of the structure through the pointer variable?
 - A. \$
 - B. &
 - C. *
 - D. ->

(1 mark)

- **Q9** Which of the following operator is used to get value at address stored in a pointer variable?
 - A. \$
 - B. &
 - C. *
 - D. ->

(1 mark)

- Q10 Which of the following operator is used to assign address of variable to pointer variable?
 - A. \$
 - B. & *
 - C. *
 - D. ->



BIT 10303

SECTION B

Instruction: Answer ALL questions.

Write two struct stataments to store FIVE (5) data for a bun: bun name, the number of bun, the price cost of the bun, the sales price of the bun, and the bake date. The bake date must be another struct consisting on day, month and year.

(20 marks)



Q12	State the meaning of the following functions in file processing:				
	(a)	fopen()			(2 marks)
	Answer:			(2 marks)	
	(b)	fclose()			(2 marks)
	Answer:				
					TIKA
	(c)	fscanf()		TERR	(2 marks)
	Answ	er:			
	(d)	<pre>fprintf()</pre>			(2 marks)

(e) Accessing file mode "a"

(2 marks)

(f) Accessing file mode "r"

(2 marks)

Answer:

Answer:

Questions Q13(a) - Q13(d) are based on Figure Q13 (a) and Q13 (b). Q13

NewBun Bakery (M) Sdn. Bhd is a bakery sales a bun as shown in Table 1. The bakery needs a payable system that able to calculate the total price need to pay by the customer according to type of bun and price.

Table 1: Bun's Price

List of bun	Price (RM)	
Coffee	3.50	
Sardine	2.50	
Sausage	2.00	
Cheese	3.20	
Butter	3.00	

Figure Q13 (a)

```
Enter a number of bun :
Coffee : 2
Sardine : 1
Sausage : 0
Cheese : 5
Butter : 10
List of buns
                                Price
7.00
2.50
0.00
Bun
           Quantity
Coffee
Sardine
Sausage
Cheese
                                 16.00
Butter 10 30.00
Total amount need to pay by customer ----> 55.50
                                                        TERBUKA
```

Figure Q13 (b)

(a) Specify the problem requirements.

III O I I U	
Problem:	
Data:	
Solution	

(b) Determine the input, process and output.

(11 marks)

Answer:

Input	Process	Output

(c)	Write the pseudo code for answer in Q13(b).	
		(15 marks)



- (d) Write a complete program for answer in **Q13(c)**. Use an array to:
 - ask a user to input a number of bun for each type of bun,
 - read the input from user of each type of bun,
 - calculate the total price for each bun, and
 - display the a lisf of bun with total price for each bun and grand total for all bun.

Your program should produce the output as shown in Figure Q13(b).

(25 marks)



CONFIDENTIAL

BIT 10303



- END OF QUESTION -

10

CONFIDENTIAL

ROZLINI DICTI MOMANIE.)
Pousyac.)
Jahana Krjunteman Perisian
Lakulti Salos Komputer dan Lase besistati
Universiti Tra Bussein Om Matayee.