

## THE POLYTECHNIC, IBADAN DEPARTMENT OF COMPUTER STUDIES SECOND SEMESTER EXAMINATION 2022/2023 SESSION

COURSE CODE:

COM 181

COURSE TITLE:

INTRODUCTION TO C PROGRAMMING

CLASS

ND I COMPUTER (FT & DPP)

TIME ALLOWED:

2 14 HOURS

INSTRUCTION:

ANSWER QUESTION ONE(1) IN SECTION A AND ANY O'THER FOUR(4)

FROM SECTION B.

#### SECTION A

### QUESTION ONE

- a. Write TRUE OR FALSE in response to the following questions
- When a variable is created in C, a memory address is assigned to the variable. ii.

In C, code statements must end with a colon.

- iii. C was first implemented on the digital equipment corporation PDP-11 in 1970.
- The instructions in machine language must be in binary digits. iv.
- C is a successor of B language. V.
- PRINTf() function is used for input. vi.
- C was invented to write an operating system called Unix vii.
- Keywords can be used for any other purpose. vili.
- Every C program can have many main functions. ix.
- C is the most widely used system programming language. X.
- Files created with text editors are called the source files xi.
- XII. All C programs are written into text files with extension .e
- To store a word/sentence, you declare a variable of the type 'string'. xiii.
- A C program that prints three lines of output must contain three printf statements. xiv.
- All variables must be declared and given a type before they are used. XV.
- Arrays are used to store multiple values in different variables. xvi.
- xvii. main is a legal identifier in C.
- String constants should be enclosed between single quotes xviii.
- What is the output of the following code snippet? b.

#include <stdio.h> int main() { printf("I am proud to be a student of computer science\n\n I am writing com 121 examination.\n \n I promised to be obedient and respectful.\n I am born to excel, so help me God."); return 0; }

#### **SECTION B**

#### **QUESTION TWO**

Briefly explain what you understand by C tokens

2 marks

In a tabular form, highlight the six(6) types of C tokens you know and give two(2) examples for each of them. 9 marl:s

c. What is compilation?

ı mark

# SQUESTION THREE

ay Little	n the gaps with the most and the gaps with the gap with	
v i.	In the gaps with the most appropriate word	
ii.	In the earliest days of computing, the only programming language available was	
iii.		de
	in the year	
ív,	are words that convey a special meaning in C compiler	
ν.	C is a level language	
vi.	character is used to insert new lines in C	
vii.	symbol is used as a statement terminator in c	
viii.	beauted as a statement terminator in c	
ix.	keyword can be used to make a variable unchangeable/read-only	у
	All Reywords in C are in case	
X	How many keywords are there in c?	
xi.	is the function of \n in c programming	
xiį.	Create a variable named myNum and assign the value 40 to it.	
	, and an area of to it.	1
QUESTION T	THREE	
a Briefly	y explain the following computer languages	
· · · · · · · · · · · · · · · · · · ·		
, 1.	Machine language ii. Symbolic language	2 marks each
b. State <u>t</u>	three(3) advantages of symbolic language and three(3) disadvantages of mac	chine language
		Committee of the commit
c. Learni	ing in English language requires the following basic steps.	6 marks
Alphal	betsentencesparagrap	a laabahaa irra
equiva	alent in learning C program.	h. Write its
equira	ment in learning & program.	2 marks
QUESTION F	OUR	
<u></u>		
a. What	The first terms of the first ter	
i.	data type ii. Variable iii. Identifiers	. manle sout
b. Highlig	ght any four (4) rules for constructing identifiers in C	ı mark each
c. Enume	erate the basic data types in C	4 marks
d. What v	will be the output of the following C code? Give reasons for your answer	2 marks
1.	#include <stdio.h></stdio.h>	3 marks
2. int	t main()	
3. {.	<u>- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1</u>	
4. i	int ThisIsVariableName = 12;	
′ 5. i	int ThisIsVariablename = 14:	
6.	printf("%d", ThisIsVariablename);	
7 . 7. i	return o;	
8. }		3-4