

KATHMANDU UNIVERSITY
End Semester Examination

March/April, 2025

15 - April - 2025

Marks Scored:

Level : B.Tech.

Year : I

Course : AIPC 101

Semester : I

Exam Roll No. :

Time: 30 mins.

F. M. : 10

Registration No.:

Date :

SECTION "A"

[20Q. × 0.5 = 10 marks]

Choose and Mark [X] in the most appropriate answer.

- Which of the following special symbols allowed in a variable name?
 * (asterisk) | (pipe) - (hyphen) _ (underscore)
- Which of the following is the correct order of evaluation for the below expression?
 $z = x + y * z / 4 \% 2 - 1$
 /%+ -= =/%+ - /*%- += /*%/- +=
- The keyword used to transfer control from a function back to the calling function is
 switch goto go back return
- Rewrite the following two statements into one?
char *p;
p = (char*) malloc(100);
 char p = *malloc(100); char *p = (char*)malloc(100);
 char *p = (char) malloc(100); char *p = (char*)(malloc*)(100);
- If a variable is a pointer to a structure, then which of the following operator is used to access data members of the structure through the pointer variable?
 . & * ->
- What is a pointer ?
 A keyword used to create variables
 A variable that stores address of an instruction
 A variable that stores address of other variable
 All of the above
- The operator used to get value at address stored in a pointer variable is
 * & && ||
- Which of the following function is more appropriate for reading in a multi-word string?
 printf(); scanf(); gets(); puts();
- Input/output function prototypes and macros are defined in which header file?
 conio.h stdlib.h stdio.h dos.h

10. What does the following code print?

```
char str[] = "Hello";
printf("%c", str[5]);
```

 o H \0 (null character) undefined
11. Which of the following is not logical operator?
 & || && !
12. What kind of language is C programming?
 Machine Procedural Assembly Object Oriented
13. In a 32-bit unsigned integer, unsigned integer occupies
 Two bytes Four bytes One byte Eight bytes
14. scanf() can be used for reading
 double character multiple characters
 single character no character
15. What is the main difference between a structure and a union in C?
 A structure allocates separate memory for each member, whereas a union shares the same memory for all members.
 A union allows multiple data types, whereas a structure only allows one data type.
 A structure is used for storing integer values, whereas a union is used for floating-point values.
 There is no difference; both work the same way.
16. The statement which is used to terminate the control from the loop is
 break goto continue exit
17. Each C preprocessor directive begins with
 # include main() {
18. The loop in which the statements within the loop are executed at least once is called
 do-while while for goto
19. What is the output of the following program segment?

```
int i = ++2;
printf ("%d\n", i);
```

 1 2 3 4
20. Which function is used to open a file in C?
 openFile() fopen() file_open() open()