GLS UNIVERSITY

Faculty Of Computer Applications & Information Technology Integrated MSc(IT)

1601102 – PROBLEM SOLVING WITH PROGRAMMING ASSIGNMENT 2 – UNIT 2

Q-1 Fill in the blanks.

1) Keywords are also called words.
2) is the only symbol which can be used in variable naming.
3)escape sequence is used for the new line in C.
4) is used for multiple line comment.
5) Array and Pointer are data types.
6) Character constants are always enclosed in
7) Signed, Unsigned, Long and Short in data types are called
8) The conditional operator can also be used as statements.
9) The operator returns the size of its operands in bytes.
10)The operator operates on individual bits of integer value.
11) Every C program should have function
12)Compiler translates your C program into
13)For printf() and scanf() header file is used.
14)Each instruction/statements in C program is terminated by
15) are non executable line in a C program
16)Header files are included in C program using
17) bits = 1 byte
18) The size of char is bytes
19) The size of integer is bytes.
20) The size of float is bytes.
21) What will be the output of following code: a=9,b=10;(a>b?printf("a is greater"):("b is greater");
22) means splitting single programs into multiple programs
23) means Program developed on one OS can be reused on other OS with little or no
modification.
24) defines the scope of the functions
25)Decimal point values can be stored in datatype
26)== is operator
27)+ is operator
28)The result of linking stage is
29)In stage, the code is rearranged and the missing details if any are filled in.

Q-2 State whether following statements are True/False

- 1) A—Z, a—z, 0—9 and special symbols all are character sets in C.
- 2) The smallest unit of a program is called token.
- 3) Keywords are always written in lower case.
- 4) Keywords can be used as name of a variable.
- 5) // is used for single line comment.
- 6) All variables must be declare before they can appear in executable statement.
- 7) Expression is a sequence of operators and operands that specifies computation of a value.
- 8) a=a+10 can be written as a+=10 in C.
- 9) Conditional opertaor is not a ternory operator.
- 10)_name is valid variable name.
- 11) We can you modify value of constant variable.
- 12) AND is relational operator.
- 13)"?:" is binary operator.
- 14) "%g" is format string.
- 15)"," is a special operator.
- 16) Format string for integer data type is "%i".
- 17) Keywords cannot be used as variable name
- 18) A float is 4 bytes wide, whereas a double is 8 bytes wide

Q-3 Answer the following:

- 1) Explain compilation process in detail
- 2) Write a short note on I/O functions.
- 3) Explain type conversion with example.
- 4) What are Relational operators?explain with the help of example.
- 5) What are Logical operators?explain with the help of example.
- 6) Write a short note on precedence and associativity of opertors.
- 7) Explain C tokens in detail.
- 8) What are Bitwise operators?explain with the help of example.
- 9) What are Assignment operators?explain with the help of example.
- 10) What is a token? Which type of tokens are available?
- 11) What is a keyword? Explain it in detail.
- 12) What is an identifier? Explain it in detail.
- 13) What are Unary operators? explain with the help of example.

- 14) How a variable can be declared? How a variable can b initialized?
- 15) What are binary operators? explain with the help of example.
- 16) What do you mean by a constant? List the type of constant.
- 17) What is a variable? Write down the rules for defining a variable.
- 18) What is Program?
- 19) Explain types of comments.
- 20) Explain Symbolic Constants.
- 21) How do you compile and run a c program.
- 22) Differenciate: Compiler and Interpreter
- 23) Explain precedence and associativity with example.
- 24) Explain printf() and scanf() in detail.
- 25) Explain header file in detail

Q-4 MCQ

1. What is C language?

- A. C language is a structure/procedure oriented
- B. C language is a middle level programming language
- C. C language was invented for implementing UNIX operating system
- D. All of the above

2. C programming language is

- A. Procedural language
- B. Object Oriented language
- C. Scripting languages
- D. None of these

3. How many keywords are there in c?

- A. 31
- B. 32
- C. 64
- D. 63

4. Which of the following is true for variable names in C?

- A. Variable names cannot start with a digit
- B. Variable can be of any length
- C. They can contain alphanumeric characters as well as special characters
- D. Reserved Word can be used as variable name

5. What is the output of this program?

```
void main()
{
int x = 10;
float x = 10;
printf("%d", x)
}
```

```
A. Compilations Error
   B. 10
   C. 10
   D. 10.1
6. What is the output of this program?
   #include <stdio.h>
   void main()
     int a=1, b=2, c=3, d;
     d = (a=c, b+=a, c=a+b+c);
     printf("%d %d %d %d", d, a, b, c);
   }
   A. 11 3 5 11
   B. 11 1 5 11
   C. 11 3 2 11
   D. 11 3 3 11
7. Which of the following operator has the lowest priority?
       1. &&
       2. +
       3. *
       4. !==
8. Which among the following operator has the highest priority?
       1. Comma operator
       2. Conditional operator
       3. Relational operator
       4. Unary plus operator
9. Which of the following statement is true?
       1. All arithmetic operators have the same level of precedence.
       2. The modulus operator % can be used only with integers.
       3. A unary expression consists of only one operand with no operators.
       4. The operators <=, >=, and != all enjoy the same level of priority.
10. What will be the output for the following C code?
       1. 2
       2. 1
       3. 3
       4. Compile-time error
   #include <stdio.h>
   int main()
   {
          int n = 8;
          n = n / 3;
          printf("%d", n);
          return 0;
   }
```