



KERALA STATE RUTRONIX

C++
(CTTC)

Question code

D1

Time : 2 hours

Maximum Marks : 100

Note: Write the answers for Questions from 1 to 30 in the MCQ answer sheet

Part - I Choose the most appropriate answer

(10 X 1 Mark = 10 Marks)

- 1) Which of the following statements declares a variable that can contain a decimal number?
a) dec payRate b) dec hourlyPay; c) int payRate; d) float hourlyPay;
- 2) Which is the right way to declare array?
a) int[] marks; b) int marks[]; c) int []marks; d) Both a and b
- 3) statement is used to define a symbolic constant in C++.
a) #define b) const c) enum d) None of these
- 4) The manipulator <<endl is equivalent to
a) '\b' b) '\t' c) '\n' d) '\0'
- 5) The expression 34 % 8 evaluates to
a) 0 b) 1 c) 2 d) 4
- 6) Identify the access specifier.
a) virtual b) void c) class d) public
- 7) Union is data type.
a) User defined b) Derived c) Basic d) Predefined
- 8) C++ was developed by
a) Dennis Ritchie b) Bjarne Stroustrup c) James Gosling d) Charles Babbage
- 9) Instance of a class is called
a) Member b) Object c) Variable d) Reference
- 10) The I/O library syntax of C++ is defined in the header file.
a) stdio.h b) conio.h c) iostream.h d) None of these

Part - II Fill in the Blanks

(10 X 1 Mark = 10 Marks)

- 11) holds both data and functions.
- 12) Single quotes are used with constants of the type.
- 13) statement is used to exit from a loop.
- 14) Input provided at the time of execution is called
- 15) A class can inherit properties from more than one class which is known as inheritance.
- 16) The header file used for **file-handling** is
- 17) Functions and pointers are data types.
- 18) function counts the number of characters present in a string.
- 19) Default return type of all functions is
- 20) The mathematical function used to find the square root of a number is

Part - III State whether True or False

(10 X 1 Mark = 10 Marks)

- 21) **friend** is a valid variable name.
- 22) Declarations can appear anywhere in the body of C++ methods.
- 23) **Call by Value** function passes the copy of the variable.
- 24) An array can store values of different data types.
- 25) The modulus operator (%) can be used only with integer operands.

- 26) Two functions cannot have the same name.
- 27) Type specifier is optional when declaring a function.
- 28) An assignment statement always has a single variable on the left side of the assignment operator.
- 29) The **eof()** function in C++, returns *true* if a file opened for reading has reached the end.
- 30) A variable declared inside the **for** loop control cannot be referenced outside the loop.

Part - IV State clearly the errors,if any and rewrite the statement.

(5 X 2 Marks = 10 Marks)

- 31) `int public =500;`
- 32) `for (i=1;int i<10;i++) cout<<i;`
- 33) `a +=a;`
- 34) `if (q≠p) p=q;`
- 35) `int m = 15.25 + - 5.0;`

(താഴെ കൊടുത്തിട്ടുള്ള ചോദ്യങ്ങൾക്ക് ഉത്തരങ്ങൾ മലയാളത്തിലും എഴുതാം)

Part - V Answer the following (Any Eight)

(8 X 5 Marks = 40 Marks)

- 36) Explain the compound assignment operators and arithmetic operators in C++.
- 37) Explain **five** predefined mathematical functions.
- 38) Explain Jump statements.
- 39) Explain various data types.
- 40) Difference between *while* loop and *do..... while* loop with syntax and examples.
- 41) Write a program to calculate and print the area of a circle, (A) given the radius(r). (Remember $A = \pi r^2$)
- 42) What are the three visibility modifiers? Explain.
- 43) Write short note on Pointers.
- 44) Write a program to find the largest of three numbers.
- 45) Give the output :
 - a) $9 - (12 / (3 + 3) * 2) - 1$
 - b) $9 - ((12 / 3) + 3 * 2) - 1$
- 46) What is the output of the following program?

```
int a,b,c;
a=2;
b=7;
c = (a>b) ? a : b;
cout << c;
```

Part - VI Explain the following (Any Two)

(2 X 10 Marks = 20 Marks)

- 47) Explain the features of Object Oriented Programming.
- 48) Explain any **five** string library functions.
- 49) Explain function overloading with an example.
- 50) Write a menu driven program to find the sum, difference, product and quotient of two numbers entered by the user.

The menu options have to follow the given format below.

1. Sum
2. Difference
3. Product
4. Quotient