

## **10<sup>th</sup> CLASS COMPUTER SCIENCE GUESS PAPER – 2022.**

### **UNIT NO. 1- INTRODUCTION TO PROGRAMMING.**

#### **MCO'S**

Exercise – Page No. 18- Mcq's No. 1, 2,5,7,8,9

#### **SHORT QUESTIONS.**

1. What is computer program or Software?
2. What is meant by programming language?
3. Who developed C language?
4. What is meant by IDE?
5. What do you mean by IDE has a graphical user interface.
6. What is language translator?
7. What is compiler?
8. What is syntax error?
9. What is character set that is used in C language?
10. What is Constant?
11. Define integer, real and character constant.
12. What is a variable?
13. Difference between Variable and Constant.
14. Discuss the main parts of the structure of C language.
15. Difference between Character and int.

#### **LONG QUESTIONS.**

1. Difference between Variable and Constant.
2. Write a program that declares variables of appropriate data types to store the personal data about your best friend. Initialize these variables. With the following data.
  - Initial letter of his name
  - Initial letter of his gender
  - His age
  - His height
3. Discuss the main parts of the structure of a C program.

## **UNIT NO. 2: USER INTERACTION.**

### **MCO'S**

**Exercise: PAGE NO. 45 – mcq's no.1, 2, 3, 6, 7, 8, 9**

### **SHORT QUESTIONS.**

1. What is relationship between a computer and programming language?
2. What are input and output function.
3. What is the purpose of print f ( ) function.
4. What is the purpose of scanf ( ) function.
5. Difference between getch() and scanf()
6. What is the list of some basic operator types?
7. What are arithmetic operators?
8. Define multiplication operator.
9. Define addition operator.
10. What are relational operators?
11. What are logical operators?
12. What is AND logical operator?
13. What is OR logical operator?
14. What is NOT operator?
15. Difference between Unary and Binary Operators.
16. Define is short circulating?

### **LONG QUESTIONS.**

1. What is difference between scanf and getch?
2. Which function of C language is used to display output on screen?
3. Different between Unary operators and binary operators.
4. What is difference between Equal to operator (==) operator and = operator?
5. Write a program that takes Celsius temperature as input, converts the temperature into Fahrenheit and show the output. Formula for conversion of temperature from Celsius to Fahrenheit is .
6. Write a program takes a 5 digit number as input, calculates and display the sum of first and last digit of number.
7. Write a program that takes radius of a circle as input. The program should calculate and display the area of circle.
8. What are logical operators? Explain its types.

**UNIT NO. 3:                      CONDITIONAL LOGIC.**

**MCO'S**

**Exercise: PAGE NO. 70 – Mcq's no. 1, 2, 5, 6, 7**

**SHORT QUESTIONS.**

1. Define Control Statement.
2. Define Selection Statement.
3. Difference between sequential and selection statements.
4. Difference between if statement and if else statement with an example.
5. What is repetition control statements?
6. Define if statement with syntax.
7. Where we need { } block when we use if statement.
8. Define of if-else statement with syntax.
9. What is if-else-if statement?
10. What is nested selection structure?
11. Write a program to display the input number is even or odd.
12. Draw a flowchart to show the structure of if-else statement.

**LONG QUESTIONS.**

1. What is the use of nested selection structures?
2. Write a program in C language that takes two numbers and finds large number.
3. Write a program to find smallest number of given two numbers.
4. Write a program that displays larger one out of three given numbers.
5. Write a program that takes two integers as input and tells whether first one is a factor of second one.

**UNIT NO. 4: DATA AND REPETITION.**

**MCO'S**

**Exercise: PAGE NO. 97 – Mcq's no. 1, 2, 3, 6, 7, 8, 10**

**SHORT QUESTION.**

1. What is data structure? And why we need data structure.
2. What is an Array?
3. How we can declared an array?
4. What is index or subscript?
5. What is loop structure?
6. What is Iteration?
7. Define for loop.
8. What is general structure of nested loop?
9. What is nested loop? And why we use nested loop?
10. What are uses of loop in an array?

**LONG QUESTIONS.**

1. What is the use of nested loops?
2. Describe the structure of a for loop.
3. How can you declare an array? Briefly describe the three parts of array declaration.

**UNIT NO. 5 FUNCTIONS.**

**MCO'S**

**Exercise: PAGE NO. 113 – Mcq's No. 1, 2, 3, 6, 8**

**SHORT QUESTIONS.**

1. What is Function?
2. What are built – in functions?
3. Define User defined function.
4. Define Reusability.
5. What is return statement?
6. Define Input and Output of a function.
7. What are parameters?
8. Define function definition.
9. What is function header?
10. Difference between arguments and parameters?
11. What do you mean by parameter of function?
12. What is the difference between function prototypes?
13. What is function calling?
14. Describe function body.

**LONG QUESTIONS.**

1. What is difference between arguments and parameters? Give an example.

2. Enlist the parts of a function definition.
3. Write a function to print the table of number.

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