



Class: XII

Time Allowed: 20 minutes

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION 2024

SUBJECT: COMPUTER SCIENCE MODEL PAPER

Q1:

SECTION "A"

Marks: 15

Note: Attempt all questions from this section. Each question carries **one** mark.

- i. The declaration of `scanf()` is included in header file
A. `<conio.h>` B. `<string.h>` C. `<stdio.h>` D. `<math.h>`
- ii. How many values can a C Function return at a time?
A. 1 B. 2 C. 3 D. 8
- iii. A type of function that is available as part of language is known as
A. user defined function B. library function C. subprogram D. both a and b
- iv. The for-loop counter variable should be of this type
A. int B. float C. char D. double
- v. A variable whose scope is unlimited is called
A. local variable B. global variable C. auto variable D. none of these
- vi. Evaluate `!(1 && !(0 || 1))`.
A. 1 B. 2 C. 0 D. -1
- vii. How many times is a do while loop guaranteed to loop?
A. 0 B. infinitely C. 1 D. variable
- viii. Which of the following is not an arithmetic operation?
A. `a*=20;` B. `a/=30;` C. `a%=40;` D. `a!=50;`
- ix. Multiple arguments to a function are separated by
A. comments B. semicolon C. colon D. comma
- x. Who is known as the father of C Language?
A. James A. Sosling B. VjarneStroustrup C. Dennis Ritchie D. Dr. E. F. Codd
- xi. Which of the following cannot be checked in a switch-case statement?
A. character B. integer C. float D. all
- xii. This operator has highest precedence
A. `++` B. `<=` C. `%` D. `./=`
- xiii. . In a database, related fields are grouped to
A. File B. Bank C. Menu D. Data Record
- xiv. When data changes in multiple lists and all lists are not updated, this causes
A. Data Redundancy B. Data inconsistency C. Duplicate data D. Data over loaded
- xv. `x - = y + 1;` means
A. `x = x - y + 1` B. `x = -x -y -1` C. `x=-x +y + 1` D. `x= x - y -1`

END OF SECTION A



Class: XII

HIGHER SECONDARY SCHOOL CERTIFICATE EXAMINATION 2024

Time: 2 hours 40 minutes

SUBJECT: COMPUTER SCIENCE SECTION "B" AND SECTION "C" Total Marks 60

Q2:

SECTION "B" SHORT ANSWER QUESTIONS

30 Marks

NOTE: Attempt any **ten** parts question from this section. All questions carry equal marks.

1. Define function. Write the importance of function in c language.
2. Differentiate between for and while loop.
3. Draw a flowchart for summing first 10 integers. **OR**
What is Data integrity?
4. What do you understand by escape sequence? **OR**
Define Data Dictionary.
5. Write down the advantages and disadvantages of DBMS?
6. Define function and also define prototype function.
7. What is IDE in visual basic?
8. What is dynast?
9. What is the important of key filed in database?
10. Convert the following into while loop.

```
void main(void)
{
  int i,j;
  for (i=4;i<=6;i++)
  for (j=i;j<=6;j++)
    printf("\n %d",i+j);
}
```

11. Convert the following expressions into C language expressions.

i. $\frac{|a+b|}{2}$

ii. $\sqrt{x^2 + xy^2}$

iii. $(a^2 + ab)^3$

12. List down the rules of defining variable in C language.

13. Define each format specifier with an example.

(a) %s

(b)%lf

(c)%c

(d) %d

(e) %f

(f)%ld

14. Write a program to convert temperature from Celsius to Fahrenheit.

15. Distinguish #define and #include

16. Define Variable. And what are the rules for naming a variable?

17. Discuss the switch statement with program.

18. What will be the output of following program?

```
int main (void) {
  int i=3, j= i-2;
  switch (i-2)
  {
  case 1:
    j++;
  case 2:
    j++;
  case 0:
    j++;
  break;
  default:
    j =0;
  }
  printf("%d", j);
  return 0; }
```

SECTION "C" DETAILED ANSWER QUESTIONS

30 Marks

Note: Attempt any two questions. Each question carries equal marks.

- Q3. a) Write a program to generate table of any given number. (7)
- b) Explain increment/decrement operator. (8)
- Q4. a) Define control structure. Explain its types. (7)
- b) Explain Objects of MS Access. (8)
- Q5. a) Explain relationship and its types with example. (7)
- b) Write a program that prints all printable characters with their ASCII codes. (8)

END OF PAPER