

**Post Graduate Diploma in Management (Hospital & Health Management)
PGDM – 2022-24 Batch**

2nd Year - 5th Term Examination

Course & Code : Programming Concept for HIS-HIT 712	Reg. No. :
Term & Batch : V, 2022-24	Date : 29-12-2023
Duration : 3 Hrs.	Max. Marks : 70

Instructions:

- Budget your time as per the marks given for each question and write your answer accordingly.
 - Don't write anything on the Question Paper except writing your Registration No.
 - Mobile Phones are not allowed even for computations.
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Part A: Q.1 to Q.10 (10 questions*1 marks = 10 marks).

1. Which one of the following is not a keyword in C language?
 - a) main
 - b) endl
 - c) float
 - d) switch
2. Array `int a[5]` can be used to store five character a, b, c, d and e into it.
 - a) True
 - b) False
3. What will be the output of the following code snippet?

```
#include <stdio.h>
int main() {
    int a = 3, b = 5;
    int t = a;
    a = b;
    b = t;
    printf("%d %d", a, b);
    return 0;
}
```

 - a) 3 5
 - b) 5 3
 - c) 3 3
 - d) 5 5

4. What is the output of the following code snippet?

```
int main() {  
    int sum = 2 + 4 / 2 + 6 * 2;  
    printf("%d", sum);  
    return 0;  
}
```

- a) 16
- b) 15
- c) 18
- d) 2

5. In the C language, the constant is defined _____.

- a) Before main
- b) After main
- c) Anywhere, but starting on a new line.
- d) None of the these.

6. Which one of the following is a loop construct that will always be executed once?

- a) for
- b) while
- c) switch
- d) do while

7. What is the output of C Program with switch statement.?

```
int main()  
{  
  
    int a=3;  
    switch(a)  
    {  
        case 2: printf("ZERO "); break;  
        case default: printf("RABBIT ");  
    }  
}
```

- a) RABBIT
- b) ZERO RABBIT
- c) No output
- d) Compiler error

8. Choose a right C Statement.

- a) Loops or Repetition block executes a group of statements repeatedly.
- b) Loop is usually executed as long as a condition is met.
- c) Loops usually take advantage of Loop Counter
- d) All the above.

9. Choose a correct statement.
 - a) C Compiler converts your C program into machine readable language.
 - b) C Editor allows you to type C Programs. It is just like a Notepad with extra options.
 - c) Console shows the output of a C Program if it is text output.
 - d) All the above

10. Why use if else condition?
 - a) To check a condition
 - b) To check many conditions
 - c) both a or b
 - d) none of the above

Part B: Q.11 to Q.16 (4 questions *5 Marks = 20 Marks) Attempt any four.

11. Write a 'C' program to enter basic salary. Calculate gross salary with 5% DA and 15% TA on basic salary. Display calculated gross salary.
12. Write a C program to find GCD of two numbers
13. Show how break and continue statements are used in a C-program, with example.
14. Write a program to check whether a string is palindrome or not.
15. Write a C program to check the number entered is positive or negative and display message accordingly.
16. Write a program to perform addition, subtraction, multiplication, and division using switch case statement for given data

Part C: Q.17 to Q.22 (4 questions *10 Marks = 40 Marks) Attempt any four.

17. An electricity board charges the following rates for the use of electricity: for the first 200 units 80 paise per unit: for the next 100 units 90 paise per unit: beyond 300 units Rs 1 per unit. All users are charged a minimum of Rs. 100 as meter charge. If the total amount is more than Rs 400, then an additional surcharge of 15% of total amount is charged. Write a program to read the name of the user, number of units consumed and print out the charges
18. Draw a flowchart for displaying the sum of even numbers in the range of 1 to n. accept 'n' from user. Explain the syntax of do-while statement. Write a C program to find the factorial of a number using while loop, where the number n is entered by the user
19. Write a c-program to check whether the given number is prime or not. Write 'C' program to find sum of natural number entered by user.
20. Define the term array. Give Syntax to declare an array. Also write two advantages of array. Describe declaration and initialization of two-dimensional array with suitable example.
21. Write a program to find highest marks in a class of n students using array.
22. Write a program in 'C' to print the multiplication table for entered number