



International Institute of Health Management Research (IIHMR), New Delhi

**PGDM (HOSPITAL AND HEALTH MANAGEMENT)**

**(Batch 2022-2024)**

**RE\_SUPPLEMENTARY EXAM (4<sup>th</sup> Term)**

**SUPPLEMENTARY EXAM (5<sup>th</sup> & 6<sup>th</sup> Term)**

**HIT 712-Programming Concept for HIS**

**Date: June 28, 2024**

**Timing & Duration: 10:30 A.M.-01:30 P.M. (3 Hrs.)**

**Max. Marks: 100**

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**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: Multiple Choice Questions (all are compulsory)**

(Total 20 marks/ 2 mark each)

(a) C programs are converted into machine language with the help of

- (1) An Editor
- (2) A compiler
- (3) An operating system
- (4) None of the above

(b) C variable cannot start with

- (1) An alphabet
- (2) A number
- (3) A special symbol other than underscore
- (4) Both (2) & (3) above

(c) A **do-while** loop is useful when we want that the statements within the loop must be executed:

1. Only once
2. At least once
3. More than once
4. None of the above

(d) What is an example of iteration in C?

- a) for
- b) while
- c) do-while
- d) all of the mentioned

(e) What is the output of this C code?

```
#include <stdio.h>
int main()
{
    float f = 0.1;
    if (f == 0.1)
        printf("True");
    else
        printf("False");
}
```

**a) True**

**b) False**

(f) What is the output of this C code?

```
#include <stdio.h>
main()
{
    int n = 0, m = 0;
    if (n > 0)
        if (m > 0)
            printf("True");
    else
        printf("False");
}
```

a) True

b) False

c) No Output will be printed

d) Run Time Error

(g) Which of the following are invalid variable names?

1. BASICSALARY
2. \_basic
3. basic-hra
4. #MEAN
5. population in 2006

(h) main( ) {

```
    int a, b ;
    printf ( "Enter values of a and b" ) ;
    scanf ( " %d %d ", &a, &b ) ;
    printf ( "a = %d b = %d", a, b ) ;
}
```

What will be the output?

```
(i)    main( )
    {
    int j=1 ;
    while ( j <= 10 )
    {
    printf ( "\n%d", j ) ;
    j = j + 1 ;
    }
    }
```

What will be the output?

```
(j)    main( ) {
    int x = 1 ;
    while ( x == 1 )
    {
    x = x - 1 ;
    printf ( "\n%d", x ) ;
    }
    }
```

What will be the output?

**Part B: Write Short notes (any four)**

(Total – 20 marks/ 5 marks each)

- (a) Write a program to print the numbers from 4 to 9 and their squares.
- (b) Write a program to convert temperature from Celsius to Fahrenheit.
- (c) differences between compilers & interpreters
- (d) Explain the properties of Algorithm.
- (e) Draw a flow chart to calculate the average from 25 exam scores.
- (f) Draw a Flow Chart to find the sum of numbers from 1 to N.

**Part C:- Long Questions (any four)**

(Total – 60 marks/ 15 marks each)

- (a) Demonstrate the usage of a switch statement with an example
- (b) Explain the different types of loops with syntax and example.
- (c) Explain the Syntax of nested if ...else statement. Write a program to find largest of three numbers using nested if ... else statement
- (d) Write a program to find cube of a Number using function
- (e) Ramesh's basic salary is input through the keyboard. His dearness allowance is 40% of basic salary, and house rent allowance is 20% of basic salary. Write a program to calculate his gross salary.