**PROGRAMMING FOR PROBLEM SOLVING**

**Subject Code –KCS-101T(ODD)/KCS-201 (EVEN)**

**Question Bank / UNIT-3**

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| **Questions** | **Bloom’s Taxonomy** | **Course Outcome** |
| **Q1)** Write program to find whether the number is prime or not. Also draw the flowchart. | Remembering, Understanding, Applying | **CO-3** |
| **Q2)** Write a program & draw flowchart to find whether the number is palindrome or not. | Remembering, Understanding, Applying | **CO-3** |
| **Q3)** Write a program & algorithm to find whether the three digit number is Armstrong number. | Remembering, Understanding, Applying | **CO-3** |
| **Q4)** What is the difference between while and do while statements  WAP in C to find the sum of following series  Sum=12+22+32+42+-----------n2 where n is number of terms | Remembering, Understanding, Applying | **CO-3** |
| **Q5)** Differentiate between Break and Continue with suitable examples | Remembering, Understanding | **CO-3** |
| **Q6)** WAP in c to print Fibonacci series up to nth terms. | Remembering, Understanding, Applying | **CO-3** |
| **Q7)** Explain nested for loop and also print the following pattern  \* AAAA 1  \*\* BBB 2 3  \*\*\* CC 4 5 6  \*\*\*\* D 7 8 9 10 | Remembering, Understanding, Applying | **CO-3** |
| **Q8)** What is modular programming? Explain types of function in c.  Also categories user defined functions(4 types) with suitable example like C code for every type | Remembering, Understanding, Applying | **CO-3** |
| **Q9)** Differentiate call by value & call by reference .Write a program to swap two number using call by value & call by reference. | Remembering, Understanding, Applying | **CO-3** |
| **Q10)** Define recursion. Write a program to find the factorial of given number using recursion. | Remembering, Understanding, Applying | **CO-3** |