De Kapil Shame

## JAYPEE UNIVERSITY OF INFORMATION TECHNOLOGY, WAKNAGHAT TEST -1 EXAMINATION- February-2022

## B.Tech IV Semester

COURSE CODE: 18B11BI414 MAX. MARKS:15 COURSE NAME: Programming Language for BI **COURSE CREDITS: 03** MAX. TIME: 1 Hours Note: All questions are compulsory. Carrying of mobile phone during examinations will be treated as case of unfair means. 1. In mathematics, the gamma function is defined as  $\Gamma(n+1)=n\Gamma(n)$  $\forall n > 1$ and  $\Gamma(1) = 1$ if n = 1For example  $\Gamma(5) = 24$  and  $\Gamma(4) = 6$ . Write a program to calculate the gamma function of a number entered by the user [3] 2. Differentiate between call by value and call by reference method of function calling. [2] 3. If the ages of Ram, Shyam and Ajay are input by user through the keyboard, write a program in perl to determine the youngest among them. [3] 4. What is the difference between while and do-while loop in C [2] 5. Evaluate the following expression step by step and find the value of x [2] \$x=4\*7-6/2\*9%4+4\*\*2 6. What would be the output of the following programs? [3] a) #include <stdio.h> void main() { int i = 5, j = 2; junk (&i, &j); printf ( "\n%d %d", i junk (int \*i. b) #!/usr/bin/perl \$num=10; print "value of num is \$num\n"; print 'value of num is \$num\n'; c) #!/usr/bin/perl \$name="kapil"; num = name x 3; print "value of num is \$num\n";