

Reg.No. \_\_\_\_\_



# Karunya UNIVERSITY

(Karunya Institute of Technology &amp; Sciences)

(Declared as Deemed-to-be University under Sec.3 of the UGC Act, 1956)

**SET - A****End Semester Examination – Nov/Dec – 2016****Code : 14CS1001****Sub. Name : Fundamentals of Computing and Programming****Semester : 2016-17 ODD****Duration : 3 hrs****Max. marks : 100****ANSWER ALL QUESTIONS (5 x 20 = 100 Marks)**

Q. No.	Sub Div.	Questions	Course Outcome	Marks
1.	a.	Describe the various computer generations along with the key characteristics of each generations.	CO1	15
	b.	List out the type of internet connection.	CO1	5
(OR)				
2.	a.	Explain program development cycle with the help of block diagram.	CO1	10
	b.	Model a flow chart and pseudo code for the following problem statement. “Calculate the area of circle”	CO3	10
3.	a.	What are the different signed and unsigned data types available in C programming?	CO4	10
	b.	Explain the structure of a C program with example.	CO1	10
(OR)				
4.	a.	What are escape sequences? Explain the different types of unformatted functions in C programming.	CO4	10
	b.	Write a C program to demonstrate the usage of bitwise operators.	CO4	10
5.	a.	Write a C program using <b>for</b> loop, to find the sum of following series $2^2 + 4^2 + 6^2 + \dots + n^2$	CO3	10
	b.	What are decision statements? Draw its block diagram and explain with example?	CO4	10
(OR)				
6.	a.	Write a C program using user-defined functions to convert the given number of seconds to hours, minutes and seconds. Pass int seconds as arguments to a function called “convert”. Then display the time in hh:mm:sec format.	CO3	10
	b.	What are the features of pointers? Explain void pointer with example.	CO4	10
7.	a.	What is storage class? List and explain the storage classes with example.	CO4	10
	b.	Write a C program to accept a text up to 20 characters and count the number of vowels, consonants and spaces.	CO3	10
(OR)				
8.	a.	Demonstrate the usage of pointers with arrays, array of pointers and pointer to pointer with example. Also state the advantages of pointers.	CO4	15
	b.	Describe recursive function with example.	CO3	5
<b><u>Compulsory:</u></b>				
9.	a.	Write a C program to open a file named “Hello.txt” and write some text into the file, then open another file named “Upper.txt” in write mode then copy the contents of “Hello.txt” to “Upper.txt” in upper case.		10
	b.	What is structure and union in C programming? Explain with suitable of example.	CO4	10

ALL THE BEST