

KSIRHNA KANTA HANDIQUI STATE OPEN UNIVERSTIY
M Sc IT/MCA/PGDCA 1st Sem. Examination, 2014

Paper - 000

Computer Programming Using 'C'
 (Theory)

Time : 2 Hrs.

Full Marks : 50

1. Fill in the blanks : 1×6 = 6
 - (a) The keyword use to transfer control from a function back to the calling function is

 - (b) Every C program begins execution at the function
 - (c) function allows the programmer to accept input from a keyboard.
 - (d) A loop containing another loop in its body is known as
 - (e) The function classer () is included in header file.
 - (f) Arrays always contain data of type.

2. Answer any five questions from the following : 2×5 = 10
 - (a) What is the output of the following programme


```
#include<stdio.h>
int main ( )
{
int k, num = 30;
k = (num>5? (num <= 10? 100:200) : 500;
printf ("%d\n", num);
return o;
}
```
 - (b) If char = 1, int = 4 and float = 4 bytes size, what will be the output of the program


```
# include < stdio.h>
int main ( )
{
char ch = 'A';
printf ("%d%d%d", sigzeof(ch), sizeof('A') sizeof(3.14f));
return o;}
```
 - (c) What are two types of declaration?
 - (d) When null pointer is used?
 - (e) What is the difference between ++var and var++
 - (f) Write any use of union.
 - (g) What is meant by C takens?
 - (h) Write teh syntax fdr opening a file.

3. Differentiate the following (any three) 4×3 = 12
 - (a) Structure and anay
 - (b) Vaid pointer and Null pointer
 - (c) Malloc and Calloc
 - (d) While and dowhile loop
 - (e) Formal parameter and actual parameter
 - (f) System defined and user defined function

4. Answer the following questions (any two)

6×2 = 12

- (a) What is the use of the following string function.
- (i) Strlen() (ii) Strcatt() (iii) Strncpy()
(iv) Strcpy() (v) Strchr() (vi) to lower()
- (b) What are the characteristics of a function. Explain in brief.
- (c) Define macro. What are the rules of macro definition.
- (d) Write a C program to convert decimal number to binary.

5. Answer the following (any one)

10×1 = 10

- (a) What are the different storage classes for variables in writing a C program. Write the basic characteristic of each. What is the default storage class?
- (b) Define recursion. Write a recursion function that performs printing a list of numbers from 1000 down to 1.

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