

--	--	--	--	--	--	--	--	--	--

First/Second Semester B.E. Degree Examination, June/July 2013

Computer Concepts and C Programming

Time: 3 hrs.

Max. Marks:100

Note: 1. Answer any FIVE full questions, choosing at least TWO from each part.

2. Answer all objective type questions only on OMR sheet page 5 of the answer booklet.

3. Answer to objective type questions on sheets other than OMR will not be valued.

PART – A

- 1 a. Choose the correct answers for the following : (04 Marks)
- i) The essential of computer system are
- A) Software B) Hardware C) Both A and B D) None of these
- ii) Which of these is a computer for an organization
- A) Work station B) Tablet computer
- C) Mainframe D) Smart phones
- iii) Which of these is an output device
- A) Printer B) Plotter C) Both A and B D) None of these
- iv) Scanner is _____ device
- A) Input B) Output C) Both A and B D) None of these.
- b. Define the computer and explain the computers for individual users. (06 Marks)
- c. Explain the parts of a computer system with the help block diagram. (04 Marks)
- d. Write a note on : i) Key board ii) Printer. (06 Marks)
- 2 a. Choose the correct answers for the following : (04 Marks)
- i) Approximate value of 1 kilobyte and its storage is
- A) 1000 bytes B) 1024 bytes C) 1012 bytes D) None of these
- ii) A hard disk rotation speed is measured
- A) rpm B) PPM C) dpi D) Cps
- iii) Fourth generation computers are based on
- A) Diodes B) Transistors
- C) Integrated circuits D) Micro processor
- iv) CD – ROM is the example of
- A) Memory device B) Storage device
- C) Processor device D) I/O device.
- b. Explain how computer process data and information processing cycle. (08 Marks)
- c. Explain the types of storage devices, with examples. (08 Marks)
- 3 a. Choose the correct answers for the following : (04 Marks)
- i) Unix is _____ operating system
- A) Multi-user B) Single user C) Both A and B D) None of these
- ii) DIR is an _____ command
- A) internal B) External C) Both A and B D) None of these
- iii) WWW stands for _____
- A) World Wide Web B) Web site
- C) Web Page D) None of these
- iv) E – mail is an service of net, which uses protocol
- A) HTTP B) FTP C) Both A and B D) None of these.
- b. Explain the uses of networks and types of networks. (08 Marks)
- c. Explain the purpose of the operating system and types of the operating systems. (08 Marks)

- 4 a. Choose the correct answers for the following : (04 Marks)
- Flowchart symbol used for decision making is
A) parallelogram B) rectangle C) rhombus D) OVAL
 - Which of the following is a C keyword
A) int B) else C) scanf D) character
 - The escape sequence '\t' is a
A) tab B) newline C) backspace D) None of these
 - What is the output of the following expression $x = 9 - 12 / 3 + 3 * 2 - 1$
A) $x = 4$ B) $x = 5$ C) $x = 6$ D) $x = 10$.
- b. Write algorithm and flowchart for solving quadratic equation. (06 Marks)
- c. Explain relational and logical operators. (06 Marks)
- d. What is algorithm? Explain the characteristics of algorithm. (04 Marks)

PART – B

- 5 a. Choose the correct answers for the following : (04 Marks)
- Format specifier for inputting integer number is
A) %d B) %f C) %s D) %c
 - Which is the appropriate for accepting character
A) gets() B) getch() C) scanf() D) putchar()
 - Which of the following is unconditional branch statement
A) if B) if else C) goto D) switch
 - The _____ statement executed in a switch statement causes immediate exit from the structure.
A) break B) continue C) goto D) None of these.
- b. Write general format, flowchart and example for if – else control. (06 Marks)
- c. Write C program to find the largest of 3 – Nos. (04 Marks)
- d. Write a general format, flow chart and example for switch statement. (06 Marks)
- 6 a. Choose the correct answers for the following : (04 Marks)
- Which of the following looping construct is entry controlled loop
A) while B) do C) for D) none of these
 - The _____ statement is used to skip a part of the statements in loop
A) continue B) break C) goto D) none of these
 - What would be the output of the following statement
count = 5 ;
while (count - - > 0)
printf(count)
A) 5, 3, 2, 1, 0 B) 4, 3, 2, 1, 0 C) 6, 5, 4, 3, 2 D) None of these
 - What would be the output of the following statement
for(m = 10 ; m > 7 ; m - = 2)
printf(m) ;
A) 10, 8 B) 8, 6 C) 6, 4 D) None of these.
- b. Explain : i) while statement ii) Do statement. (06 Marks)
- c. Explain for statement, with example. (04 Marks)
- d. Write a program compute the sum of digits of a given integer number. Print the number and sum. (06 Marks)
- 7 a. Choose the correct answers for the following : (04 Marks)
- An array is a collection of
A) Same data type B) Different data type
C) Both A and B D) None of these

- 7 a. ii) An array float height [50] contains _____ elements in C
 A) 49 B) 50 C) 51 D) None of these
- iii) Array can be initialized at
 A) Run time B) Compile time
 C) Both A and B D) None of these
- iv) An array that uses more than 2 subscripts is referred as _____ array
 A) one – dimension B) Two – dimension
 C) multi – dimension D) None of these.
- b. Explain the declaration of one –dimensional and two – dimensional arrays, with example each. **(06 Marks)**
- c. Write a C program to accept N – integer numbers and store them in an array, conduct a binary search for a given key number. Print appropriate messages. **(10 Marks)**
- 8 a. Choose the correct answers for the following : **(04 Marks)**
- i) Parameter passed as arguments to the function is called
 A) Actual parameter B) Formal parameter
 C) No parameter D) None of these
- ii) A variable declared in a function is called
 A) Actual variable B) Formal variable
 C) Local variable D) Global variable
- iii) A function calls itself is known as a _____ function
 A) Recursive B) Iterative C) Both A and B D) None of these.
- iv) When you pass an array as an argument to a function _____ passed
 A) Address of the array B) Values of the element of the array
 C) Both A and B D) None of these.
- b. Write a C program to read a matrix A(M × N) and to find the following using user defined functions :
 i) Sum of the elements of the specified row
 ii) Sum of the elements of the specified column
 iii) Sum of the elements of the matrix. **(10 Marks)**
- c. Explain categories of user defined functions. **(06 Marks)**

* * * * *

