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First/Second Semester B.E. Degree Examination, Dec.2018/Jan.2019
Computer Concept and C Programming

Time: 3 hrs.

Max. Marks:100

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

PART – A

- 1 a. Choose the correct answers for the following : (04 Marks)
- Which of the following device stores instructions that help computer to start up?
 A) Monitor B) ROM C) RAM D) Joystick
 - Which of the following is not an input device?
 A) Scanner B) Keyboard C) Plotter D) Mouse
 - A megabyte (MB) is equivalent to _____
 A) 1024 TB B) 1024 KB C) 1024 MB D) 1024 GB
 - ASCII value of 'A' is _____
 A) 97 B) 65 C) 66 D) 64
- b. Explain the different types of printers. (10 Marks)
- c. With a neat diagram, explain the basic structure of a computer. (06 Marks)
- 2 a. Choose the correct answers for the following : (04 Marks)
- A magnetic disk's tracks are divided into smaller parts called
 A) slices B) bytes C) sectors D) clusters
 - Acronym DOS stands for
 A) driver operating system B) disk operating system
 C) distributed operating system D) diskless operating system.
 - Which is a secondary memory device
 A) Cache B) Registers C) Floppy disk D) RAM
 - Every web page has a unique address, called a
 A) HTTP B) WWW C) URL D) Hyperlink
- b. What is operating system? Explain various functions of an operating system. (08 Marks)
- c. With a neat diagram, briefly explain the different layers of OSI model. (08 Marks)
- 3 a. Choose the correct answers for the following : (04 Marks)
- Which of the following in not a valid identifier?
 A) MAX_10 B) NUM50 C) \$Name D) print
 - Which of the following is not a keyword in C?
 A) int B) float C) return D) prime
 - C is a _____ language.
 A) Object oriented B) Structured C) Machine D) Assembly
 - Step by step procedure to solve a given problem is called
 A) Logarithm B) Flow chart C) Algorithm D) Program
- b. Explain the structure of a C program. (06 Marks)
- c. Explain formatted input and output functions. (06 Marks)
- d. Explain basic datatypes available in C. (04 Marks)

- 4 a. Choose the correct answers for the following : (04 Marks)
- _____ is used to determine the order in which different operations in an expression are evaluated.
A) Evaluation B) Precedence C) Associativity D) format
 - The operator % yields
A) Quotient B) Percentage C) Fractional part D) Remainder
 - If $x = 20$, then value of x^{++}
A) 21 B) 20 C) 19 D) - 20
 - Keywords are _____.
A) Variable B) Identifier C) Reserved words D) None.
- b. Write a program to print Least Significant digit of an integer. (06 Marks)
- c. Explain the following with examples: (06 Marks)
- Type conversion
 - Compound statement
- d. With examples, illustrate any four common programming errors. (04 Marks)

PART – B

- 5 a. Choose the correct answers for the following : (04 Marks)
- Which of the following will not be terminated by semicolon sign?
A) Function prototype B) Function calling
C) Function definition D) None of these
 - The main() is a
A) library function B) User defined function
C) Keyword D) None of these
 - The scope of the variable defined in a function is
A) Local B) Modular C) Global D) Universal
 - The parameters used in function prototype are called _____ parameters.
A) Formal B) Dummy C) Actual D) None of these
- b. Write a program to find GCD of two numbers by using function. (06 Marks)
- c. Explain different types of passing parameters to the functions. (10 Marks)
- 6 a. Choose the correct answers for the following : (04 Marks)
- Operator used in logic OR is
A) & B) ! C) :: D) &&
 - Multway decision making using _____.
A) while B) for C) if D) switch
 - The correct statement for checking a condition in if statement is
A) if (a = b) B) if (a == b) C) if (a, b) D) if (a b)
 - Which of the following command will place the program control out of the loop when it gets executed?
A) goto B) Break C) exit D) continue
- b. Distinguish between while and do-while statements, with one example each. (08 Marks)
- c. Explain the logical operators used in C. (08 Marks)
- 7 a. Choose correct answers for the following : (04 Marks)
- Which of the following is not a data structure?
A) Queue B) pointer C) stack D) Linked list.

- ii) The process through which data arranged according to their values is known as
 A) listing B) Searching C) Sorting D) Arranging
- iii) The _____ search locates the target item by starting at the beginning and moving towards end of the list.
 A) selection B) binary C) ascending D) sequential
- iv) If a[5] is a declaration, then first and last array index will be
 A) 1, 5 B) 1, 6 C) 0, 4 D) 0, 5
- b. Explain declaration and initialization of arrays with example. (08 Marks)
- c. Explain the following string handling functions:
 (i) strlen (ii) strcat (iii) strcpy (iv) strcmp (08 Marks)
- 8 a. Choose the correct answers for the following : (04 Marks)
- i) Which of the following is not a synchronization construct?
 A) master B) section C) critical D) single
- ii) _____ execution of instructions in a computer system is referred to as parallel computing.
 A) Serial B) Sequential C) Accurate D) Single
- iii) Which of the following open Mp environmental variables enables or disables nested parallelism?
 A) omp_set_next B) omp_get_nested C) omp_nested D) none of these
- iv) Open MP stands for _____
 A) Open multi_parallelism B) open multi_processing
 C) organized multi_programming D) Organized multi_parallelism
- b. Explain the data handling in openMP. (08 Marks)
- c. Briefly explain the different Application areas of parallel computing. (08 Marks)

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