

Registration no:

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Total Number of Pages: 01

B.Tech.
BE2105

1st Semester Back Examination 2017-18

PROGRAMMING IN C

BRANCH: AERO, AUTO, CHEM, CIVIL, CSE, ECE, EEE, EIE, ELECTRICAL, ETC, IT,
MECH, MME, PE, TEXTILE

Time: 3 Hours

Max Marks: 70

Q.CODE: B723

Answer Question No.1 which is compulsory and any five from the rest.
The figures in the right hand margin indicate marks.

- Q1 Answer the following questions: (2 x 10)**
- a) What is a flowchart ? Explain with one example.
 - b) What is the difference between low level and high level language and uses of them?
 - c) Explain about the break and continue with example.
 - d) Explain about Actual and Formal parameters.
 - e) Differentiate between for loop and while loop.
 - f) What is an array variable? How it is different from ordinary variable?
 - g) What are the various types of storage class used in C ?
 - h) Differentiate between structure and union.
 - i) Write the importance of typedef.
 - j) Differentiate between scanf and fscanf functions with examples.
- Q2**
- a) Briefly describe the computer architecture with a suitable block diagram. (5)
 - b) What are the steps involved in program development process? Explain. (5)
- Q3**
- a) What do you mean by operator precedence and associativity ? explain different types of operators used in c with examples. (5)
 - b) Write a C program to swap (exchange) the values of two variables without using temporary variable. (5)
- Q4**
- a) Write a C program to find the sum of first and last digit of a number. (5)
 - b) What is Recursive Function? What are the constraints for defining a Recursive function? Explain with an example. (5)
- Q5**
- a) Discuss various valid arithmetic operations that can be performed on pointers in C. (5)
 - b) Explain the concept of Nested structures with a sample C program. (5)
- Q6**
- a) Explain about different storage classes with examples. Discuss their uses and scope. (5)
 - b) Explain different string handling functions available in C language (5)
- Q7**
- What do you mean by file ? What are the functions used for accessing files randomly? Explain with examples (10)
- Q8 Write short answer on any TWO: (5 x 2)**
- a) Global variable vs Local Variable
 - b) Structure vs Union
 - c) Storage classes used in C
 - d) Data types used in C