FIRST YEAR B. C. A. EXAMINATION

Ma rech- 2017

PAPER – 103: INTRODUCTION TO PROGRAMMING LANGUAGE – *SoS2*

TIME: 3 HOUR   [TOTAL MARKS: 100]

Q-1   Answer the following questions.   [20]

1. Write a note on basic structure of 'C' language   [05]
2. Explain the terms: Editor, Translator, Assembler.   [05]
3. Define algorithm. Explain algorithm with example.   [05]
4. What is variable? State the rules of declaring a variable in C.   [05]

OR

Q-1   Answer the following questions.   [20]

1. What is flowchart? Explain flowchart with example.   [05]
2. Explain compiler and interpreter in brief.   [05]
3. What is data type? Explain basic data types available in C.   [05]
4. What is Programming Language? Explain its type.   [05]

Q-2   Answer the following questions.   [20]

1. Why we use decision making statements? Explain all decision making statements with
    example.   [10]
2. Explain formatted input and output statement with example.   [05]
3. Explain break and continue statement with example.   [05]

OR

Q-2   Answer the following questions.   [20]

1. Explain different types of loops available in C.   [10]
2. Define operator. Explain operators available in C.   [05]
3. Explain Goto statement with example.   [05]

Q-3   Answer the following questions.   [20]

1. What is array? Explain types of array. How we can initialize 1D and 2D array? Explain with
    example.   [10]
2. Write a C Program that perform addition of 3*3 matrix.   [10]

OR

Q-3   Answer the following questions.   [20]

1. What is searching? Explain linear search with example.   [10]
2. Write any 5 built in functions with their syntax, meaning and example.   [10]

Q-4   Answer the following questions.   [20]

1. What is function? Explain different categories of UDF with example.   [10]
2. Explain different storage class in detail.   [10]

OR

Q-4   Answer the following questions.   [20]

1. What is recursion function? Explain with example.   [10]
2. What is pointer? Why we use pointer? Explain pointer with example.   [10]

Q-5   Answer the following questions.   [20]

1. What is structure and union? Give the difference between structure and union. Explain nesting
    of structure in C.   [10]
2. Explain the following functions with syntax, purpose and example:
    a) fgets()   b) fputc()   c) fprintf()   d) ftell()   e) fseek()   [10]

OR

Q-5   Answer the following questions.   [20]

1. What is structure? Explain following with example:
    a) Simple structure   b) Structure within structure.   [10]
2. Why we use command line argument? Explain it with suitable example.   [10]