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Roll No. ....

B. C. A. -I Sem.

18002

B. C. A. Examination, Dec. 2016

Programming Principles & Algorithm

(BCA-102)

(New Course)

Time : Three Hours]

[Maximum Marks : 75

Note : Attempt questions from all Sections as per instructions.

Section-A

(Very Short Answer Questions)

Answer all the five questions. Each question carries 3 marks. Very short answer is required not exceeding 75 words. 3x5=15

1. What do you understand by 'call by value'?
2. What do you understand by C tokens ?
3. What do you understand by swapping ?
4. What is preprocessor directives ?
5. Why C language is known as procedural language ?

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Section-B

(Short Answer Questions)

Answer any two questions out of the following three questions. Each question carries 7½ marks. Short answer is required not exceeding 200 words. 7½x2=15

6. Write a program in C to find out the number is even/odd.
7. Define flow chart. Draw a flow chart to find out the number is positive or not.
8. Write a program in C for recursion.

Section-C

(Detailed Answer Questions)

Answer any three questions out of the following five questions. Each question carries 15 marks. Answer is required in detail. 15x3=45

9. What do you understand by problem solving techniques ? Explain divide and conquer.
10. Why time complexity is an important issue ? Explain.
11. Write a program to find out whether the given number is odd or even.
12. What is header files ? Explain with its types.
13. What is function ? Explain with its examples.

**Section-B**

**(Short Answer Questions)**

Answer any *two* questions out of the following three questions. Each question carries  $7\frac{1}{2}$  marks. Short answer is required not exceeding 200 words.  $7\frac{1}{2} \times 2 = 15$

6. Write a program in C to find out the number is even/odd.
7. Define flow chart. Draw a flow chart to find out the number is positive or not.
8. Write a program in C for recursion.

**Section-C**

**(Detailed Answer Questions)**

Answer any *three* questions out of the following five questions. Each question carries 15 marks. Answer is required in detail.  $15 \times 3 = 45$

9. What do you understand by problem solving techniques? Explain divide and conquer.
10. Why time complexity is an important issue? Explain.
11. Write a program to find out whether the given number is odd or even. <https://www.ccsustudy.com>
12. What is header files? Explain with its types.
13. What is function? Explain with its examples.