2017

BCA 1st Semester Examination C PROGRAMMING LAB.

PAPER-1196 (Set-I)

(Practical)

Full Marks: 100

Time: 3 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Illustrate the answers wherever necessary.

Answer any two questions through lottery basis.

2×25

1. Write a C program to find the roots of a quadratic equation :

$$ax^2 + bx + c = 0, a \neq 0$$

2. Write a C program to print the following figure:

2 3 4 5 6

- 3. Write a C program to remove duplicate (repeated) numbers in an array.
- 4. Write a C program to check whether a number is palindrome or not.
- 5. Write a C program to print the prime numbers in between 10 and 200.
- 6. Write a C program to find the sum of the series:

$$1 + \frac{1}{1.2} + \frac{1}{2.3} + \frac{1}{3.4} + \dots + \frac{1}{(n-1)n}$$

for given x = 12.

- 7. Write a C program to count number of vowels and consonant in a given string.
- 8. Write a C program to store some values into a file and display these values.
- 9. Write a C program to find HCF and LCM of two numbers.
- 10. Write a C program to find the sum of e^x series up to n where $(n \le 10)$ and $e^x = 1 + \frac{x}{1!} + \frac{x^2}{2!} + \frac{x^3}{3!} + \cdots$
- 11. Write a C program to sort a set of integers using insertion sort.
- 12. Write a C program to find the GCD and LCM between two numbers using functions.
- 13. Write a C program to reverse a 5 digit number and find its sum.
- 14. Write a C program to convert a given upper-case string to lower-case string.
- 15. Write a C program to determine whether a given year is a leap-year or not.
- 16. Write a C program to find the factorial for a given number without using recursion.
- 17. Write a C program to find the length of the string without using the strlen() function.
- 18. Write a C program to arrange the given 5 strings in alphabetical order.

Viva - 15 Marks

PNB - 05 Marks

Internal Assessment — 30 Marks