No. of Printed Page : 1

SET - 1

BACHELOR IN COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Practical Examination

03695

December, 2012

BCSL-021 : C Language Programming

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40 marks.** The rest **10** marks are for **viva-voce**.*

1. Write an interactive 'C' Program to check whether the given number is a palindrome or not ? **20**

2. Write an interactive program to calculate Gross salary and Net salary and generate the pay-slips for 5 employees if Basic, TA, DA, allowances and deductions are given. Assumptions can be made wherever necessary. **20**

   Note : Use Structures concept.

No. of Printed Page : 1

SET - 2

BACHELOR IN COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Practical Examination

01165

December, 2012

BCSL-021 : C Language Programming

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40 marks.** The rest **10** marks are for **viva-voce**.*

1. Write an interactive 'C' Program to abbreviate a given name. **20**

   Example : Input : RAM LAXMAN KAPOOR

   Output : R L KAPOOR

2. Write a program to check whether a given number is a prime number or not. **20**

No. of Printed Page : 1

SET - 3

BACHELOR IN COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Practical Examination 01245

December, 2012

BCSL-021 : C Language Programming

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40 marks.** The rest **10** marks are for **viva-voce**.*

1. Write an interactive 'C' Program to calculate the total, average and grade if the marks of 5 subjects are given for 5 students. Assumptions can be made wherever necessary. **20**

   Note : Use Structures concept.

2. Write a program to convert a decimal number to its binary number equivalent. **20**

No. of Printed Page : 1

SET - 4

BACHELOR IN COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Practical Examination 00695

December, 2012

BCSL-021 :C Language Programming

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40 marks.** The rest **10** marks are for **viva-voce**.*

1. Write an interactive program to convert a binary number to its decimal equivalent. **20**

2. Write an interactive 'C' program to add two matrices A, B of size 3×3 and store the sum in matrix C. **20**

No. of Printed Page : 1

SET - 1

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

00604

Term-End Practical Examination

June, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write an interactive C program to check whether the given number is a "PRIME NUMBER" or not. **20**

2. Write a C program to swap the values of 2 variables "a" and "b", using pointers. **20**

No. of Printed Page : 1

SET - 2

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

Term-End Practical Examination

00791

June, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

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1. Write an interactive C program to find the total, average, Grade (A, B, C, D, E) for students in 6 courses, whose maximum marks in each course is 100 marks. 40 marks is the pass-marks in each of the course's. **20**

between between between

A → ≥70% B → 69.9 and 60 C → 59.9 and 50 D → 49.9 and 40 E → failed<40%

Note : Assumptions can be made wherever necessary

2. Write a C program to find the factorial (using recursion) for a given number. **20**

No. of Printed Page : 1

SET - 3

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

00754

Term-End Practical Examination

June, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write an interactive program to add matrices A, B of size 3×3 and store the sum in a matrix C of size 3×3. **20**

2. Write a C program to generate fibonacci series, using recursion for first 10 terms. **20**

No. of Printed Page : 1

SET - 4

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

00074

Term-End Practical Examination

June, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write a C program to reverse a 5-digit number and find its sum. **20**

2. Write a C program to convert a decimal number to its binary equivalent. **20**

No. of Printed Page : 1

SET - 1

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

01241

Term-End Practical Examination

December, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them **all**. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write an interactive program in C to subtract matrix B from matrix A and store the difference in matrix C of size 3×3. **20**

2. Write a C program to find the factorial of any given number less than 20. **20**

No. of Printed Page : 1

SET - 2

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

00164

Term-End Practical Examination

December, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write a C program to take 10 integers as input, find their sum and average. **20**

2. Write a C program to check whether the given character string is a palindrome or not ? **20**

No. of Printed Page : 1

SET - 3

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

00044

Term-End Practical Examination

December, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write an interactive C program to count the number of characters and blank spaces in a given string. **20**

2. Write an interactive C program to process the student-evaluation records of 4th semester BCA programme for 10 students, using structures. **20**

Note : Use structures concept. Assumptions can be made wherever necessary.

No. of Printed Page : **1**

SET - 4

BACHELOR OF COMPUTER APPLICATIONS (BCA) (REVISED)

00171

Term-End Practical Examination

December, 2013

BCSL-021 : C Language Programming Lab

Time allowed : 1 hour *Maximum Marks : 50*

Note : *There are **two** questions in this paper. Answer them all. They carry **40** marks. The rest **10** marks are for **viva-voce**.*

1. Write an interactive C program to find the Greatest Common Divisor (GCD) of two numbers. **20**

2. Write a function cell that will return the length of a character string. You are not allowed to use the "strlen" C library function. **20**

Note : Use "Pointers" concept.

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00955

June, 2014

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **all**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive program to do the following operations by providing the choice using the switch statement : *20*

(a) Add two numbers

(b) Subtract two numbers

(c) Multiply two numbers

(d) Divide two numbers

(e) Exit

2. Write a program to check whether the given string is a palindrome or not. *20*

No. of Printed Pages : 1

BCSL-021(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

01467

Term-End Practical Examination

June, 2014

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **all**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write a C program to sort a given list of N numbers in ascending order using any of the sorting algorithms of your choice. *20*

2. Write a C program to convert a given upper-case string to a lower-case string. *20*

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

01757

Term-End Practical Examination

June, 2014

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **all**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive C program to count no. of vowels, no. of characters, no. of special symbols and no. of spaces in a given string. *20*

2. Write a C program to display the pattern shown below : *20*

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

No. of Printed Pages : 1

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00158

June, 2014

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **all**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive C program to multiply 2 matrices A and B of order (m × n) and (n × p) and store the product in matrix C. *20*

2. Write a program in C using structures, to take the details of 5 students of Class V and display them. *20*

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00800

December, 2014

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive C program to calculate the Gross salary and Net salary of 5 employees working in a retail outlet if Basic, DA, TA, Allowances and Deductions are given. Use Structures concept.

Note : Assumptions can be made wherever necessary. *20*

2. Write a C program to find and display the reversal of a 4-digit number.

Example : I/P : 6794

O/P : 4976 *20*

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)
Term-End Practical Examination

00403

December, 2014

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive program in C to do the following operations on strings by providing the choice using the '**switch**' statement : *20*

(a) To find the string-length of a given string.

(b) To concatenate 2 strings.

(c) To change all the characters to lower-case for a given string.

(d) Exit.

2. Write a C program to find the factorial for a given number. *20*

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00104

December, 2014

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write a C program to do the following using a '**switch**' statement : *20*

(a) To add two matrices $A_{(m \times n)}$ and $B_{(m \times n)}$.

(b) To subtract two matrices $A_{(m \times n)}$ and $B_{(m \times n)}$.

(c) Exit.

2. Write an interactive C program to arrange the given 5 strings in alphabetical order. *20*

No. of Printed Pages : 1

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00274

December, 2014

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write a program to find the factors of a given number. *20*

2. Write a C program to find the largest and smallest numbers among the given list of 5 numbers. *20*

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

01003

Term-End Practical Examination

June, 2015

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive C program to generate a bill for a stationery shop. *30*

Note : Assumptions can be made wherever necessary.

2. Write a C program to find the sum of n numbers given as input by the user. *10*

No. of Printed Pages : 1

BCSL-021(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

01243

June, 2015

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

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1. Write a C program to find the total and average of marks for 5 students in English, Hindi, Social Science, Science and Maths. The maximum marks in each subject is 100 and the pass marks in each subject is 40. *20*

Note : Use structures concept.

2. Write a C program to find the length of the string **without** using the strlen( ) function. *20*

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

01403

June, 2015

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write a C program to do the store name, eno, programme, programme_code, regional_centre, study centre code and state of 10 students in a file named "stu_record". *20*

Note : Use "files" concept.

2. Write a C program to add two matrices A(m×m) and B(m×m) and store the sum in C(m×m). *20*

No. of Printed Pages : 1

00503

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

June, 2015

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are **two** questions in this paper. Answer them **both**.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write a C program to find and display the sum of all digits for a given 5-digit number. *20*

2. Write a C program to sort a list of given 5 numbers in descending order. *20*

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

01379

December, 2015

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive C program to generate a bill for the ordered items for a Fast Food Restaurant. *30*

Note : Assumptions can be made wherever necessary.

2. Write a C program to count the number of vowels in a given string and display all the vowels in it. *10*

No. of Printed Pages : 1

BCSL-021(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

01229

December, 2015

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both.***

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive program to perform the following computations (on Matrices A and B of order 3 × 3) by providing the options using a "Switch" statement : *30*

(i) Add 2 matrices

(ii) Multiply 2 matrices

(iii) Exit

2. Write a C program to swap the values of 2 integer variables "a" and "b" and display them.

Note : Use Pointers concept. *10*

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

01669

December, 2015

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

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1. Write a C program to take the inputs Emp_No, Emp_Name, Sex, Age, Department, Designation, Basic_Pay, Address, Mobile_No and Email_Addr for 10 employees and store them in a .dat file (data file). Accept Emp_No from the user, search and display the Emp_No, Emp_Name, Department and Basic_Pay respectively. *30*

Note : Use Structures and File Handling concepts.

2. Write a C program to find the smallest among the 3 numbers given as input. *10*

No. of Printed Pages : 1

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00079

Term-End Practical Examination

December, 2015

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both.***

(ii) They carry 40 marks.

(iii) The rest 10 marks are for viva-voce.

1. Write an interactive C program to input 10 students' record in a data file (.dat) of BCA 2nd semester and take the input as ENo from the user, search and display the whole details of the respective student. *30*

Note : Use Structures and File Handling concepts.

2. Write a C program to find the string length of a given string. *10*

Note : Should not use the "strlen( )" function.

No. of Printed Pages : **1**

BCSL-021 - Set - 1

BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Revised)

Term-End Examination 01088

June, 2016

BCSL-021 - Set - 1 : C LANGUAGE PROGRAMMING LAB

Time : 1 hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them both.*
(ii) They carry 40 marks.
(iii) Rest 10 marks are for viva-voce.

1. Write a menu driven program to read list of numbers and perform the following operations : **20**

(a) Print the list

(b) Delete the duplicates, if any from the list

2. Write a C program to find the no. of occurrences of Vowels in a given string. **20**

No. of Printed Pages : **1**

BCSL-021 - Set - 2

BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Revised)

Term-End Examination

02958

June, 2016

BCSL-021 - Set - 2 : C LANGUAGE PROGRAMMING LAB

Time : 1 hour *Maximum Marks : 50*

Note : *(i) There are 2 questions in this paper. Answer them both.*
(ii) They carry 40 marks.
(iii) Rest 10 marks are for viva-voce.

1. Write an interactive C program for sorting the elements of an array in descending order. **20**

2. Write an interactive C program to count no. of occurrences of Consonants in a given string. **20**

No. of Printed Pages : **1**

BCSL-021 - Set - 3

BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Revised)

Term-End Examination

00318

June, 2016

BCSL-021 - Set - 3 : C LANGUAGE PROGRAMMING LAB

Time : 1 hour *Maximum Marks : 50*

Note : *(i) There are 2 questions in this paper. Answer them both.*
(ii) They carry 40 marks.
(iii) Rest 10 marks are for viva-voce.

1. Given below is the list of marks obtained by a class of 20 students in an annual examination (out of maximum 100 marks) : **20**

   65, 22, 11, 80, 91, 44, 55, 55, 46, 85, 09, 64, 99, 100, 82, 81, 76, 54, 21, 02

   Write a C program to count the no. of students belonging to each of the following groups :

   0-9, 10-19, 20-29, 30-39, 40-49, 50-59, 60-69, 70-79, 80-89, 90-99, 100

2. Write a C program to find factorial of a number *using recursion.* **20**

No. of Printed Pages : 1

BCSL-021 - Set - 4

BACHELOR OF COMPUTER APPLICATIONS (BCA)
(Revised)

Term-End Examination

00918

June, 2016

BCSL-021 - Set - 4 : C LANGUAGE PROGRAMMING LAB

Time : 1 hour *Maximum Marks : 50*

Note : *(i) There are 2 questions in this paper. Answer them both.*
(ii) They carry 40 marks.
(iii) Rest 10 marks are for viva-voce.

1. Write an interactive C program to take the inputs of marks for assignments and term end exams of BCA (first semester) courses and display the student_name, enrol no., programme, total marks, percentage and Grade. **20**

   Note : Use structures concept.

2. Write an interactive C program to count the no. of words and blank spaces in a given string. **20**

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

02483

Term-End Practical Examination

December, 2016

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a program to find the largest number in a given array of 10 elements. *20*

2. Using structures, write a program to calculate the Gross_salary and Net_salary of 10 employees working in a retail medical shop if their Basic, DA, TA, other allowances and deductions are given. Display the employee_name, employee_id, designation, month/year of salary, Basic, DA, TA, other allowances, deductions, Gross_salary and Net_salary for each employee. *20*

No. of Printed Pages : 1

BCSL-021(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

December, 2016

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write an interactive C program to add two matrices A (m × n) and B (m × n) and store the sum in C (m × n). *20*

2. Write a C program to find the factorial of a given number. *20*

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00453

Term-End Practical Examination

December, 2016

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write an interactive C program to multiply and find the product of two matrices A (m × n) and B (n × k) and store the product in C (m × k). *20*

2. Write a program to print all the prime numbers up to the given number "N" as input. *20*

No. of Printed Pages : 1

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)
Term-End Practical Examination
December, 2016

00733

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both.***

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

---

1. Write a C program to perform the following operations on matrices : *20*

$D = A (m \times n) + B (m \times n) - C (m \times n)$

2. Write a C program to display the product of the first 10 (ten) natural numbers. *20*

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

02745

June, 2017

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program to reverse every word of a given string. *20*

2. Write a C program to calculate the sum and average of all the 10 elements in the array. *20*

No. of Printed Pages : 1

BCSL-021(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)
(BCA)
Term-End Practical Examination
June, 2017

00005

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program to insert an element at a specific position in a given array. *20*

Note : No need of sorting the array, only should be inserted at a specific position given by the user.

2. Write a C program to simulate the billing application of a simple general store. *20*

Note : Assumptions can be made wherever necessary.

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00828

Term-End Practical Examination

June, 2017

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program to perform the following operations on 2 matrices of (N × N) size : *30*

(a) Addition

(b) Subtraction

(c) Multiplication

2. Write a C program to calculate the sum of all even numbers in a given list of "N" numbers. *10*

No. of Printed Pages : 1

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

01995

Term-End Practical Examination

June, 2017

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program to convert a decimal number to its binary equivalent. *20*

2. Write a C program to find the largest word in a given string. *20*

No. of Printed Pages : 1

BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00512

Term-End Practical Examination

December, 2017

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program to perform the following on matrices : *30*

$$D = A + B - C$$

where A, B, C are matrices of size 3×3 and D is the resultant matrix.

2. Write a C program to calculate the length of a given string without using the strlen( ) function. *10*

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00602

December, 2017

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program to calculate the area of an isosceles triangle whose altitude and base are given as inputs. *20*

Hint : Area = $\frac{1}{2} \times \text{base} \times \text{height}$

2. Write a C program to check whether two given strings are Anagrams of each other or not. *20*

Hint : Two strings are said to be anagrams if the characters in the strings are the same in terms of number and value, only arrangement or order of characters may be different.

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

December, 2017

00432

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a C program to calculate Simple Interest (SI) where principal amount, time period and rate of interest are given. *20*

Hint : SI = (P * T * R)/100

2. Write a C program to insert a character at a desired place in the given string. *20*

Example : VOUME (input string)

Character to be inserted : "L" at 3rd position from left

O/P : VO(L)UME

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BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

00862

December, 2017

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program, using appropriate user-defined functions and a switch statement to perform addition, subtraction, multiplication and division, if two numbers and choice of the arithmetic operation are given as inputs. *30*

2. Write a C program to count the number of characters in a given string. *10*

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BCSL-021(P)/S1

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

02835

June, 2018

BCSL-021(P)/S1 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both.***

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a C program to calculate the perimeter and area of a rectangle whose length and breadth are given. *20*

Hint : Perimeter = 2 (Length + Breadth)

Area = Length × Breadth

2. Write a C program to count the number of repetitive characters in a simple string. *20*

Example : JANUARY

o/p : Character A – Appeared 2 times.

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BCSL-021(P)/S2

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

02944

June, 2018

BCSL-021(P)/S2 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write an interactive C program to perform the following on matrices : *25*

$$D = (A \times B) - C$$

where A, B, C are matrices of size 2×2 and D is the resultant matrix.

2. Write a C program to append a given string2 to string1 at the end (after a blank space). *15*

Example : STRING1 – IGNOU
STRING2 – NEWDELHI
o/p : IGNOU NEWDELHI

No. of Printed Pages : 1

BCSL-021(P)/S3

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

00676

Term-End Practical Examination

June, 2018

BCSL-021(P)/S3 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

1. Write a C program, using appropriate user defined functions and a switch statement (to select the choice of operation) to perform Addition, Subtraction, Division operations on given 2 matrices of size 2×2. *25*

2. Write a C program to find and display the product of "n" numbers given as input. *15*

No. of Printed Pages : 1

BCSL-021(P)/S4

BACHELOR OF COMPUTER APPLICATIONS (Revised)

(BCA)

Term-End Practical Examination

01255

June, 2018

BCSL-021(P)/S4 : C LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : *(i) There are two questions in this paper. Answer them* ***both****.*

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a C program to calculate the perimeter and area of a circle whose radius is given in centimetres. *20*

Hint : Perimeter = $2 \times \pi \times r$

Area = πr^2 where $\pi = 3{\cdot}1415$

2. Write a C program to count and print the number of words in a given string. *20*

43533

No. of Printed Pages : 2

BCSL-021/S1

Bachelor of Computer Application (Revised) (BCA)

Term-End Examination

December, 2018

'C' LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : (i) There are ***two*** questions in this paper. Answer both of them.

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a 'C' program to find the second largest number among 3 numbers given as input. 20

2. Using structures, write an interactive 'C' program to find the total marks, average marks in the first semester courses of BCA for 5 students of your class. 20

Note : Assumptions can be made wherever necessary.

47463

No. of Printed Pages : 2

BCSL-021/S2

Bachelor of Computer Application (Revised) (BCA)

Term-End Examination

December, 2018

'C' LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : (i) There are ***two*** questions in this paper. Answer both of them.

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a C program to add 2 matrices A (2 × 2), B (2 × 2) and store the sum in matrix C. 20

2. Write an interactive C program to remove the duplicates in a given word (string) and display the individual characters with a comma delimiter. 20

Example : I/P : CALCULATE
O/P : C, A, L, U, T, E

47463

No. of Printed Pages : 2

BCSL-021/S2

Bachelor of Computer Application (Revised) (BCA)

Term-End Examination

December, 2018

'C' LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : (i) There are ***two*** questions in this paper. Answer both of them.

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

---

1. Write a C program to add 2 matrices A (2 × 2), B (2 × 2) and store the sum in matrix C. 20

2. Write an interactive C program to remove the duplicates in a given word (string) and display the individual characters with a comma delimiter. 20

Example : I/P : CALCULATE
O/P : C, A, L, U, T, E

48353

No. of Printed Pages : 2

BCSL-021/S3

Bachelor of Computer Application (Revised) (BCA)

Term-End Examination

December, 2018

'C' LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : (i) There are ***two*** questions in this paper. Answer both of them.

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a program to perform the following on matrices of size (2 × 2) : 20

$$C = A - B$$

2. Using structures, write an interactive 'C' program to process employee salary for 5 employees (Gross salary and Net salary) for the current month if attendance, basic, allowances and deductions (LIC, income-tax, loans) are given as input. 20

49033

No. of Printed Page : 2

BCSL-021/S4

Bachelor of Computer Application (Revised) (BCA)

Term-End Examination

December, 2018

'C' LANGUAGE PROGRAMMING LAB

Time : 1 Hour *Maximum Marks : 50*

Note : (i) There are ***two*** questions in this paper. Answer both of them.

(ii) They carry 40 marks.

(iii) Rest 10 marks are for viva-voce.

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1. Write a C program to find factorial of a given number, using Recursion. 20

2. Write a C program to count the no. of vowels in a given string and display all the vowels in it separately. 20