K.L.E. Society's

R. L. Science Institute (Autonomous),
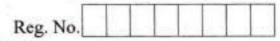
Belagavi.

Question Paper Booklet

BCA I Semester Nov. 2019

Reg. No. ☐☐☐☐☐☐☐☐

I.   **Answer the following questions in a sentence each:**   **10x1=10**

1. What do you mean by Précis writing?
2. What is a Sentence?
3. On whom is the movie "The social Network" based on?
4. What do you mean by Predicate?
5. Who is the author of "The Power of Habit"?
6. Name the product which was made famous by Mr. Hopkins
7. What is the whole purpose of drafting a Notice?
8. How many Parts of speech are there in English language? Name any two.
9. What are the three steps of a Habit Loop?
10. Which training method was followed by Starbucks?

II.   **Answer any two of the following**   **2x5=10**

1. Briefly explain the story of Angie Bachman and Brian Thomas.
2. Explain the types of Sentences
3. Did BCA help you to cultivate a strong positive habit, if yes, mention the same, if no mention the reason.
4. Expand the Idea –"An idle mind is a devil's workshop" OR "A single conversation with a wise man is better than ten years of study"

III.   **1x10=10**

1. What is the Golden rule to habit change? Explain with reference to AA

OR

2. Write the movie review of "The Social Network"

IV.   **1x10=10**

1. Explain the steps or principles of Paragraph writing.

OR

2. Explain the Movie review of "Something Ventured".

V.   **Read the following passage carefully and answer the questions based on the passage.**   **5x2=10**

A student may excel in his education. He may score top marks in school & gain admission at IIT Chennai. But the moment he enters the job market he is turned down by employer after employer. The reason is his soft skills are non-existent. This is the situation faced by many job -seekers in India as companies now view soft skills as important as hard skills. Soft skills refer to one's people skill, & it has become a crucial element of employability. People skills encompass a number of traits that employers seek out in a candidate. Appropriate social behavior, friendliness,

productive personal habits, creative thinking, all come under people's skills. Soft skills can be defined as personal attributes that relate to a person's ability to interact effectively with co-workers & customers.

Social skills refer to manners and etiquette. You should be dressed appropriately, be well groomed. You must take care not to use too much make-up or perfume as that can distract or irritate interviewers or your co-workers. You must be respectful & mindful of others. You must be a good listener, maintain cell phone etiquette & observe how others handle situations & learn from them. You must be open to meeting new people & experiencing new things. This means you must be friendly & inviting when introduced to co-workers. Without this skill, you will be unable to rise in the ranks of a company, as people will be reluctant to work with you.

Most Employers are looking for creative thinkers. These are people capable of thinking up solutions that most would consider 'out of the box'. Creativity leads to innovation & efficiency & now a days, most companies hope to be on the forefront of innovation. Companies like Face book & Google prioritize such talent. Interpersonal skills make you a 'team player'. This means you are unselfish & willing to help others. As you advance in your career you will be called upon to handle projects where you must coordinate with & delegate work to others. If your interpersonal skills are poor, your co-workers will not prioritize the project or they will be reluctant to take it on with you. An effective workforce requires a good flow of communication, & this is impossible if your interpersonal skills are poor. In a professional environment, it is essential that you exhibit these skills so that one can have a healthy & a positive working atmosphere.

1. What is the reason that a student is turned down by an employer?
2. What are the traits of peoples' skill ?
3. Which is that skill without which you will be unable to rise in the company?
4. Most employers are looking for people who think out of the box. What does 'out of the box' mean?
5. What does interpersonal skills make you? what are the traits?

VI. 1. You are Ruhi/ Rahul, CR of your class. Your college is going to organize an inter-college Dance competition. Write a Notice for your College Notice board inviting names of the interested students.   **(5 marks)**

2. Write a letter to your Principal requesting to grant you leave for 5 days.

                                                                                     (5 marks)

VII. 1. PRECIS writing-Read the passage & write a summary in not more than 1/3rd of its length

The pressures of childhood or the pleasures of childhood? Children always wonder why they have to slog . They always want to play, & concentrating on studies is difficult. Most schools, instead of instilling confidence in the students, only put fear into them. In many schools the strength of a classroom is about 60-70 & more. So it is practically impossible for teachers to attend to each student's problems. So the easiest way of maintaining order & discipline in classroom was by instilling fear in the minds of the students. So it is a pity that most children grow up in this atmosphere of fear, it's no wonder that they often lack in confidence.   **(5 marks)**

2. Keeping the Rules of Paragraph writing. Write a Paragraph on 'Your favourite tourist   destination"   **(5 marks)**

Reg. No. [ ][ ][ ][ ][ ][ ][ ][ ]

Duration: **3 Hrs**   Max Marks: **70**

Instructions to candidates:

1. Attempt all Questions.

I. **Answer any FIVE of the following:**   **5X2=10**
  1. Define the term Algorithm
  2. List the characteristics of Algorithm.
  3. Write an algorithm to swap 2 numbers.
  4. Why are arrays used in computing?
  5. Give the applications of Fibonacci sequence algorithm.
  6. Define Time Complexity and Space complexity.
  7. Write the formula for reversing the number.

II. **Answer any SIX of the following :**   **6X5=30**
  8. Design an algorithm to find the factorial of a number.
  9. Design an algorithm to reverse the digits of a number.
  10. Design an algorithm that read list of numbers and make a count of positive and negative numbers
  11. Write an algorithm to generate Fibonacci sequence
  12. Design an algorithm to the greatest common Divisor of 2 integers.
  13. Explain the concepts of Loops.
  14. Design an algorithm to sort numbers in ascending order by exchange method.
  15. Design an algorithm to exchange 3 variables.

III. **Answer any THREE of the following:**   **3X10=30**
  16. Design and explain an algorithm to reverse the elements of an array.
  17. a) Design an algorithm to check if a given number is palindrome or not.
      b) Write an algorithm to find the largest number in an array.
  18. Explain the problem solving aspect phases.
  19. Design and explain the algorithm to search for a given number using Binary search.
  20. What is Structured Programming? Explain the 3 types of Structured Programming.

KLE Society's

Raja Lakhamagouda Science Institute (Autonomous),
Belagavi.
Fifth Semester BCA Degree Examination Nov- 2019
E54: WEB PROGRAMMING

Duration: 3 Hrs   **Max Marks: 70**

Instructions to candidates:

1. Attempt all Questions.

I.   Answer any FIVE of the following: 5X2=10

1. Define URL.
2. Explain with an example image tag.
3. Differentiate between java and JavaScript.
4. How to declare a variable in JavaScript.
5. Define DTD. Mention the types of DTDs.
6. Define Hash.
7. List the primitive types in PHP.

II.   Answer any SIX of the following :   6X5=30
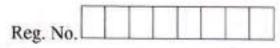
8. Explain the concept of DNS.
9. Explain with an example list tags.
10. List the methods of window object? And explain methods with example.
11. Write a short note on event and event handling.
12. Explain the concept of XSLT.
13. Explain arrays in perl.
14. Explain opening of a file and reading a data from file in PHP.
15. Explain types of sorting functions in PHP.

III.   Answer any THREE of the following: 3X10=30

16. a) Explain the box model with suitable example.

    b) List and explain the different levels of style sheets in CSS with examples.

17. a) Explain the primitive types in JavaScript.

    b) Write a javascript to find a entered string is palindrome or not.

18. a) Explain the syntax of XML.

    b) Differentiate between HTML and XML

19. a) Write a Perl program to search a key in an array using linear search

    b) Explain CGI. pm module.

20. a) Explain selection and looping statements in PHP

    b) Explain session tracking in PHP.

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Raja Lakhamagouda Science Institute (Autonomous)

Belagavi.

First Semester BCA Degree Examination Nov - 2019

A61: PROGRAMMING IN C

Duration: **3 Hrs**

Max Marks: **70**

Instructions to candidates:

1. Attempt all Questions.

I. Answer any FIVE of the following:

5X2=10

1. Define flowchart. List the flowchart symbols.

2. Classify the below listed devices into input, output and storage device:

   Keyboard, Optical Disk, VDU, Mouse, Monitor, Compact Disk, Light Pen, Printer, Joystick, Plotter, Hard Disk, Scanner, OMR, OCR, MICR, Pen Drive, RAM, ROM.

3. What is translator? Give example.

4. Explain printf() statement with syntax and example.

5. Write a C program to display the entered number is Positive/Negative.

6. What is null character? State its use in a string.

7. What is a pointer? How is it declared and initialized?

II. Answer any SIX of the following :

6X5=30

8. Explain the characteristics of the computer.

9. Define Operating System. Explain its functions.

10. Explain the basic structure of C program with an example.

11. State the difference between "while" and "do while" loop.

12. Write a C program to perform various arithmetic operations using switch statement

13. Define array. Explain the classification of an array.

14. Write a C program to display the number of vowels and consonants in a given string.

15. Convert the following mathematical expressions to its equivalent statement in C:

   $a = 1 / (x^2 + y^2)$ b. $a = \sqrt{(b^2 - 4ac)}$ c. $a = (x+y)(x-y)^2$

   $sum = \sqrt{a^2 + b^2}$ d. $m = a^2 b^2 (a+b)^2$

III. Answer any THREE of the following: 3X10=30

16. Explain the functional components of the computer system with neat labeled diagram.

17. What is an operator? Explain the operators used in C with an example.

18. Explain various conditional/branching statements with syntax and example.

19. Write a C program to:

    a) Display the number of even and odd numbers in an array.

    b) Perform linear/sequential search.

20. Write a C program to:

    a) Concatenate two strings without using in-built function.

    b) WAP to swap two numbers without using temporary variable through user defined function.

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Raja Lakhamagouda Science Institute (Autonomous)

Belagavi.

First Semester BCA Degree Examination Nov - 2019

A62: WEB TECHNOLOGY- I

Duration: **3 Hrs**   Max Marks: **70**

Instructions to candidates:

1. Attempt all Questions.

I.   Answer any FIVE of the following: 5X2=10

1. Briefly explain the concept of WWW.
2. List different types of internet protocol related to web.
3. What is DHTML and CSS.
4. List properties of math object and number object.
5. Explain how to declare variables in JavaScript along with an example.
6. List different methods of date objects.
7. What are the advantages of XML?

II.   Answer any SIX of the following :   6X5=30

8. Explain basic structure of HTML with example.
9. Write an HTML code to design college admission Form.
10. Explain different level of style sheets in CSS with example.
11. List and explain the different data types in JavaScript with example.
12. Explain functions with example.
13. Explain different string methods with example.
14. Explain while loop with example.
15. Differentiate between HTML and XML.

III.   Answer any THREE of the following: 3X10=30

16. a) Explain with the example image tag.
    b) Write HTML Code to illustrate formatting tags.
17. a) Explain with example onclick and onload event in DHTML
    b) Explain switch statement with example.
18. List and explain arithmetic operators in JavaScript with an example.
19. Explain different array methods with example.
20. a) Write a HTML code to validate form from client side.
    b) Explain XML document structure

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KLE Society's

Raja Lakhamagouda Science Institute (Autonomous)

Belagavi.

First Semester BCA Degree Examination Nov - 2019

A63: UNIX SHELL PROGRAMMING

Duration: **3 Hrs**   Max Marks: **70**

Instructions to candidates:

1. Attempt all Questions.

I.   Answer any FIVE of the following: **5X2=10**

1. What is file? List the types of files.
2. Explain HOME Directory.
3. Explain the command to join lines in vi editor.
4. What is filter? Give example.
5. What is a process? When it is created?
6. What is inode and inode table?
7. What is shell script? State the difference between programming language and scripting.

II.   Answer any SIX of the following :   **6X5=30**

8. Explain UNIX architecture with neat labelled diagram.
9. Explain in detail ls –l command with example.
10. Explain Shell interpretive cycle.
11. Explain process creation mechanism.
12. Explain directory security impact on its files.
13. Explain the inode table attributes.
14. Explain different forms of if statement with syntax and example.
15. Write a shell script to calculate area and circumference of circle.

III.   Answer any THREE of the following: **3X10=30**

16. a) Explain the following general purpose utility commands with syntax, options and example: **i)** cal   **ii)** date   **iii)** echo   **iv)** bc   **v)** who
    b) Explain parent-child relation in UNIX file system.
17. Explain the features of UNIX operating system.
18. a) Explain the modes of vi editor with a neat diagram.
    b) Explain the methods of using chmod command.
19. a) Explain escaping and quoting with an example.
    b) Explain grep command with syntax, options and an example.
20. a) Write a shell script to check the file permission if the file exists.
    b) Write a shell script to display the lines in a file containing an entered keyword.