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BC-102

Comp. Fundamental

**BCA 1st Sem.(2019-22)**

*Time : 3 hours*

*Full Marks : 80*

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

*The questions are of equal value.*

*Answer any five questions*

1. What is Secondary Storage devices ? How does direct access differ from Sequential access in Memory read / write operation ?
2. List out some important characteristics of computer. How many types of computer system ? Explain them.
3. Define the Software. List and explain the types of software. Give two example of each category.
4. What is an Operating System ? Explain All the Four types of Operating Systems.
5. Differentiate between the characteristics of primary and secondary Memory of computer.
6. What is data processing ? Differentiate between Data and information. Which is more useful to the people?
7. How Many types of Computer System ? Explain them.

P.T.O.

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8. What is a Computer? Draw a block diagram of a computer System and discuss the functionalities of each in detail. Explain different generations of Computer.
  9. Define the terms :-  
Compiler, Interpreter, Assembler, Loader and Linker
  10. Discuss the Concept of output. Explain different types of printers used as output devices.

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BC-103

Bus. Comm. & Inf. Sys.

**BCA 1st Sem.(2019-22)**

*Time : 3 hours*

*Full Marks : 80*

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

*The questions are of equal value.*

*Answer any five questions.*

1. Define the term communication. Explain the Various characteristics of communication.
2. What do you mean by Sales letter ? Explain in detail about the AIDA theory/approach of Writing any sales letter.
3. Discuss in detail about 8 C'S of letter Writing.
4. Explain the various Skills that are evaluated during a Group discussion.
5. What do you mean by "Presentation". Discuss the steps for effective Presentation.
6. What is the MIS ? Explain the functions of MIS.
7. What is the OAS ? Explain the role of OAS in Organisation.
8. What is the Concept of Management Information System? Discuss its importance.

P.T.O.

9. What is the Information ? What are its Characteristics.
10. What is the DSS ? Discuss the Simon's Model of decision making.

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BC-101

Maths Foundation

## BCA 1st Sem.(2019-22)

Time : 3 hours

Full Marks : 80

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

*The questions are of equal value.*

*Answer any five questions.*

1. Find the Eigen values and Eigen Vectors of the following matrix:

(a)  $A = \begin{bmatrix} 1 & 1 \\ 3 & -1 \end{bmatrix}$

(b)  $B = \begin{bmatrix} 3 & 2 & 2 \\ 2 & 2 & 0 \\ 2 & 0 & -4 \end{bmatrix}$

2. Find the inverse of the matrix :

$$A = \begin{bmatrix} 1 & 3 & 2 \\ 2 & -1 & 1 \\ 3 & -2 & -1 \end{bmatrix}$$

3. Find the rank of the matrix :

$$A = \begin{bmatrix} 1 & 2 & 3 & 4 \\ 2 & 4 & 6 & 8 \\ -1 & -2 & -2 & -4 \end{bmatrix}$$

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BC-104

C Programming

**BCA 1st Sem.(2019-22)**

*Time : 3 hours*

*Full Marks : 80*

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

*The questions are of equal value.*

*Answer any five questions.*

1. What is "C" language. Write down the features and application of "C" language.
2. What is loop ? Discuss the Types of loop.
3. Write a "C" Programme to enter a Number check that given number is prime Number or NOT.
4. (a) Write a "C" programme to print the following series of  $n$  given term.  
[ 0,1,2,3,5,8,13,21..... $n$  ]  
(b) Write a "C" programme to Enter a number, print Sum and reverse of the number using Function.
5. Explain parameter passing Technique. Distinguish between call by value and call by value by reference method with example.

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6. (a) Explain any Five String Handling Function .  
(b) Write a "C" programme to Enter a string. Print how many words are present in the given string.
7. What is pointer. Write a "C" programme using pointer and print the Sum of  $n$  natural number.
8. What is structure. Write a "C" programme to enter students name, roll number, fee and marks. Display Students name, roll number, fee and marks using structure.
9. What is file ? Discuss the types of files.
10. Write Short notes on any two :
  - (a) Library Function in "C"
  - (b) Flow Charts
  - (c) Nesheng
  - (d) Header Files

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