



# Assignment No: 1

Programme: \_\_\_\_\_

Semester: \_\_\_\_\_

**Submitted by:-**

<b>Student Name :</b>	
<b>Enrollment No :</b>	
<b>Roll No. :</b>	
<b>Date of Submission:</b>	

**Submitted to:-**

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& UIS 2 (f) of U.G.C. Act 1956

**Programme: BCA II Sem**

**Course Name: DATABASE MANAGEMENT SYSTEMS**

**Course Code: BCA-121**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- a) Explain history of database.
- b) Explain the advantages and disadvantages of Database Management System.

### **Q.2**

- a) Explain all the models of DBMS in detail.
- b) Explain all the data types of SQL in detail.



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**Programme: BCA II Sem**

**Course Name: DATA STRUCTURE USING “C”**

**Course Code: BCA-122**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

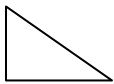
1. Write the responses to the assignment in your own handwriting.
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Q.1 (a): As we know that C language is rich in its data types. So, can you discuss its types it will help you to learn more about the language?

(b) As we know that switch case statement is multi-way decision making statement. So, write a program which has following options

1. Factorial of a number
2. Odd or even number

Q.2 (a): As we know the concept of loop in C programming? Write a program to draw a star pattern program to the given image.



(b) As you know the concept of operators. So you can solve the following question it will help you more to understand the topic

```
i) int a=5,b=6;  
c=a++ + --b +a;  
printf(“%d”,&c);  
ii) int a=8;  
b=+ a-- *8;  
printf(“%d”,&b);
```



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**Programme: BCA II Sem**

**Course Name: ENVIRONMENTAL SCIENCE**

**Course Code: HS-121**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

**Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
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**Q. 1**

- (a) Write the differences between Living and non-living.
- (b) What is ecology?

**Q. 2**

- (a) Define-
  1. Abiotic components.
  2. Biotic components.
- (b) Define -Atmosphere



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**Programme: BCA II Sem**

**Course Name: DIGITAL ELECTRONICS AND COMPUTER ORGANISATION**

**Course Code: BCA-124**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- a) What do you mean by Logic gates? Explain in brief.
- b) Define the NAND and NOR gates with logic diagram and truth tables?

### **Q.2**

- a) Minimize the following boolean expressions.

(i)  $F = \sum m(0, 1, 3, 4, 5)$

(ii)  $F = \sum m(0, 1, 3, 4, 5, 8, 9, 12, 13)$

- b) Define the terms

i) Demorgan Law

ii) POS Terms



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**Programme: BCA II Sem**

**Course Name: MATHEMATICS-II**

**Course Code: BCA-125**

**Assignment No: 1**

**Due date of submission: 12.03.2018**

### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD within the due date.
3. Write your Name, Programme and Enrollment No. clearly at the top of page.

### **Q.1**

- (a) As you are aware of the sequences, define sequences with examples?
- (b) State and prove the Cauchy convergence criterion.

### **Q2.**

- (a) As you are aware of infinite series, define convergent, divergent and oscillatory series.
- (b) Test the convergence of the series:

$$\frac{1}{2.3} + \frac{1}{3.4} + \frac{1}{4.5} + \frac{1}{5.6} + \dots$$