



**MONAD University**  
**N.H. 24, Delhi Hapur Road,**  
**Village & Post Kastla, Kasmabad, P.O Pilkhuwa - 245304,**  
**Dist. Hapur (U.P.), India**

## **Assignment No: 1**

**Programme (Branch)/Sem:.....**

**Course Name:-.....**

**Submitted by :-**

**Candidate's Name:.....**

**Enrollment No.:- .....**

**Roll No. :- .....**

**Date of Submission:- .....**

**Submitted to:-**

.....



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**Programme: Diploma (CS-III<sup>rd</sup> Sem)**

**Course Name: Programming in C**

**Course Code: DIPCS-211**

**Assignment No: 1**

**Due date of submission: 11.09.2017**

### **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 execution process of programs, discuss the terms, *Compiler*, *Interpreter* and *C Editor* in your words. Also, you will learn more if you draw a flowchart of overall execution process of a C Program. Do it.
- b) Discuss all the Format Specifiers available in C. Also, give some examples of each of them.

### **Q.2**

- a) As we have done various programs in class sessions, discuss the usage and meaning of each the following :
  - i. #
  - ii. `stdio.h`
  - iii. `conio.h`
  - iv. `clrscr();`
  - v. `()`
  - vi. `[]`
  - vii. `;` and `:`
  - viii. `printf()` and `scanf()`

- b) As you know the syntax and applications of decision control statements very well. You may learn more if you write *two examples* each of the following statements:
- i. If
  - ii. If else
  - iii. Nested if



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**Programme: Diploma (CS-III<sup>rd</sup> Sem.)**

**Course Name: E-Commerce**

**Course Code: DIPCS-212**

**Assignment No: 1**

**Due date of submission: 11.09.2017**

### **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 “E-commerce”? Explain with all its advantages.
- b) Discuss all the limitations of E-commerce.

### **Q.2**

- a) Write all the drivers of e-commerce in detail.
- b) Explain the following:
  - (i) B2C (ii) B2B (iii) C2C



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**Programme: Diploma (CS-III<sup>rd</sup> Sem.)**  
**Course Name: System Software & Operations**  
**Course Code: DIPCS-213**  
**Assignment No: 1**  
**Due date of submission: 11.09.2017**

### **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) You are aware of System Software. Define System software with example. Also discuss the functions of very popular system software that we discussed in the class session.
- b) You know the concept of Operating System. You will learn more about OS, if you discuss different types of OS. Do it.

### **Q.2**

- a) You are aware of Process. So define it and also draw and explain the state diagram of a process.
- b) You are aware of context of a process. So you can discuss all the attributes of Process Control Block (PCB) in detail. Do it.



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**Programme: Diploma (CS-III<sup>rd</sup> Sem.)**

**Course Name: Discrete Mathematics**

**Course Code: DIPCS-214**

**Assignment No: 1**

**Due date of submission: 11.09.2017**

### **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) As you are aware of set representation forms. So, answer the following:**

- **Write the following sets in the set builder form.**

$$A = \{2, 4, 6, 8\}$$

$$B = \{3, 9, 27, 81\}$$

$$C = \{1, 4, 9, 16, 25\}$$

$$D = \{1, 3, 5, \dots\}$$

$$G = \{O\}$$

$$P = \{ \}$$

- **Write the following sets in the roster form.**

$$A = \{x : x \in W, x \leq 5\}$$

$$B = \{x : x \in I, -3 < x < 3\}$$

$$C = \{x : x \text{ is divisible by } 12\}$$

$$D = \{x : x = 3p, p \in W, p \leq 3\}$$

$$E = \{x : x = a^2, a \in N, 3 < a < 7\}$$

$$F = \{x : x = n/(n + 1), n \in N \text{ and } n \leq 4\}$$

**b) As you are aware of types of sets. So, answer the following:**

- **Which of the following are the examples of an empty set?**
  - (a) The set of even natural numbers divisible by 3.
  - (b) The set of all prime numbers divisible by 2.
  - (c)  $\{x : x \in N, 5 < x < 6\}$
  - (d) The set of odd natural numbers divisible by 2.
  - (e)  $B = \{O\}$
  - (f)  $C = \{ \}$

- **Which of the following are equivalent sets?**
  - (a)  $A = \{1, 2, 3\}$        $B = \{4, 5\}$
  - (b)  $P = \{q, s, m\}$        $Q = \{6, 9, 12\}$
- **Are the following pairs of sets equal?**
  - (a)  $A = \{2\}$        $B = \{x : x \in \mathbb{N}, x \text{ is an even prime number}\}$ .
  - (b)  $M = \{a, b, c, d\}$        $N = \{p, q, r, s\}$

## Q.2

a) As you are aware of subset, proper subset and superset. So, you can answer, If  $A = \{1, 2, 3, 4\}$ ,  $B = \{2, 3, 4, 5\}$ . Is  $A$  the subset of  $B$  or  $B$  the subset of  $A$ ? Do it.

b) Given that  $A = \{2, 4, 5, 6, 7\}$ ,  $B = \{2, 3\}$ .  $R$  is a relation from  $A$  to  $B$  defined by  $R = \{(a, b) : a \in A, b \in B \text{ and } a \text{ is divisible by } b\}$ .  
Find (i)  $R$  in the roster form (ii) Domain of  $R$  (iii) Range of  $R$



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**Programme: Diploma (CS-III<sup>rd</sup> Sem.)**  
**Course Name: Electrical & Electronics Engineering**  
**Course Code: DIPCS-215**  
**Assignment No: 1**  
**Due date of submission: 11.09.2017**

### Instructions

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### Q.1

a) What do you mean by magnetic flux?

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b) Explain Lenz's law.

□□□□क`□□□□ □□ □□□□□□`.

### Q.2

a) Explain the Faraday's law of electromagnetic induction.

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समझ □□□`.

b) A coil of 400 turns is linked by a flux of 30 mWb. If this flux is reversed in a time of 2 ms. Calculate the average e.m.f. induced in the coil.

400 turns □□ एक क □ □□□ □ 30 ममल □ ब`बर

□□□□□□ स` गथन

□□□□ स`□□□□ □म`

□□□ □ पररन □□□ कर न`त □ ह`त □ क □ □□□ □ म

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करत □ ह` □□□ यह

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