

**ASSIGNMENT- 2**

**POLYTECHNIC DIPLOMA**  
**(ALL BRANCHES) –1<sup>st</sup> Sem.**



**MONAD**  
**UNIVERSITY**

Established by UP State Govt. Act 23 of 2010  
& UIS 2 (f) of U.G.C. Act 1956

**Assignment No: 2**

**Programme:.....**

**Semester:.....**

**Submitted by :-**

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

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

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

**Branch :- .....**

**Mob. No. :- .....**

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

**Submitted to:-**

.....



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**MONAD**  
**UNIVERSITY**  
Established by U.P. State Govt. Act 23 of 2010  
& U/S 2 (f) of U.G.C. Act 1956

**Programme: DIPLOMA (ALL BRANCH-I<sup>st</sup> Sem.)**  
**Course Name: Computer Fundamentals and Applications (CFA)**  
**Course Code: DIP-115**  
**Assignment No: 2**  
**Due date of submission: 23.10.2017**

### **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. and other details clearly on the front page given.**

### **Question No. 1.**

a) As you are aware of Computer Network. So, explain the following types and Topologies of Computer Network in detail using suitable diagrams.

- i) PAN
- ii) LAN
- iii) MAN
- iv) WAN
- v) Star Topology
- vi) Bus Topology
- vii) Ring Topology

b) As we have discussed in the class, differentiate the following using suitable diagrams

- i) Program Vs Software
- ii) Data Vs Information
- iii) System Software Vs Application Software.

### **Question No. 2.**

a) As we have discussed various conversion methods like Binary to Decimal, Decimal to Binary etc. in the class sessions, now, perform the following conversions.

- i.  $(243)_{10} \rightarrow (?)_8$
- ii.  $(500)_{10} \rightarrow (?)_8$

- iii.  $(53)_{10} \rightarrow (?)_8$
- iv.  $(303)_{10} \rightarrow (?)_{16}$
- v.  $(0110.1010)_2 \rightarrow (?)_{10}$
- vi.  $(0111.1011)_2 \rightarrow (?)_{10} \rightarrow (?)_8$

b) As we have worked in LAB on Ms Word and Power Point, now, you will learn more if you answer the following:

- i) Twenty short cut Keys used in MS WORD.
- ii) Ten Short Cut Keys used in MS POWER POINT.
- iii) Discuss the steps to insert *Page Number*, *Header* and *Footer* in MS WORD.
- iv) Discuss the steps to insert SMART ART and CHART in MS Word.

Programme: **Diploma (ALL BRANCHES) –1<sup>st</sup> Sem.**

Semester:**I**

Course:**DIP-114, Applied Mathematics-I**

Assignment No: **2**

Due date of submission: **23.10.2017**

**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 Enrolment Number clearly at the top of the page.

Q.1.

- (a) Find the area of the triangle whose vertices are  $(-5, -1)$ ,  $(3, -5)$ ,  $(5, 2)$ .
- (b) Evaluate  $\int_0^1 \frac{dx}{1+x^2}$  using Simpson's  $\frac{1}{3}$  rule by taking  $h = \frac{1}{4}$ .

Q.2.

- (a) Find the equation of a parabola having the vertex at  $(0,1)$  and the focus at  $(0,0)$ .
- (b) Define ellipse. Find the coordinates of the foci, the vertices, the length of major axis and the minor axis of the ellipse  $36x^2 + 4y^2 = 144$ .

**Course: DIP112 ,Applied Physics**

**Assignment: 2**

**Due date of submission: 23/10/2017**

**Instructions:**

- 1. Write the response to the assignment in your own handwritings.**
- 2. Submit the response to your H.O.D. within the due date.**
- 3. Write your name, program and enrollment no. clearly at the top of the page.**

Q 1(A) Derive a relation between surface tension and surface energy of a liquid.

Q 1(B) Explain the difference between the streamline and turbulent flow with suitable examples.

Q 2 (A) Explain why “A drop of liquid under no external force is always spherical in shape”.

Q2 (B) State and prove Bernoulli’s theorem for steady flow of an ideal fluid.

**Course : EY-111, CONVENTIONAL ENERGY**

**Assignment: 2**

**Due date of submission: 23/10/2017**

**Instructions:**

- 1. Write the response to the assignment in your own handwritings.**
- 2. Submit the response to your H.O.D. within the due date.**
- 3. Write your name, program and enrollment no. clearly at the top of the page.**

**Q.1**

- a. Differentiate between HCV and LCV.
- b. Differentiate between commercial and non commercial energy resources.

**Q.2**

- a. write short note on bio fuel, biomass, biogas and bio-liquid fuel.
- b. Differentiate between conventional and non-conventional energy resources.

## **ASSIGNMENT- 2nd**

### **POLYTECHNIC DIPLOMA (ALL BRANCHES) – 1<sup>st</sup> Sem.**

**Course Name - Professional Communication      Course Code: DIP-111**

Assignment No: 2                      last date of submission: 23/10/2017

#### **Instructions**

1. Write the responses to the assignment in your own handwriting.
2. Submit the responses to your HoD/Faculty within the due date (23/10/2017).
3. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

- Q. 1 (a) Verbal communication is the first step of communication. Describe the importance of verbal communication.
- (b) Listening is a basic element of communication. Give the difference between listening and hearing.
- Q. 2 (a) As we are familiar with interpersonal communication skills. Write down some tips for improving interpersonal communication skills.
- (b) Group discussion means expressing and exchanging views on a topic by the participating members. Write the basic purposes of Group Discussion.





## **ASSIGNMENT-1**

Course- Diploma (All Branches)

Sub code- DIP-113

Sub-Applied Chemistry

Year- 1st year/1st sem

Last date of Submission-23/10/2017

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, program and Enrolment number clearly at the top of the page.

Q1.

- 1) What is conductor? How many types are conductor . please explain.  
कंडक्टर क्या है? कंडक्टर के कितने प्रकार होते हैं? बताएं।
- 2) What is atomic radius? Explain different types of radius in detail.  
परमाणु त्रिज्या क्या है? विभिन्न प्रकार के त्रिज्या को विस्तार से बताएं।

Q2.

- a) Explain and give the properties of Modern periodic table.

आधुनिक आवर्त सारणी की गुणों को बताएं।

- b) What is pH Value? Explain in detail.

पीएच वैल्यू क्या है? विस्तार से बताएं।