



MONAD UNIVERSITY HAPUR (UP)

Course: Diploma-1,

Subject Name: *Applied Mathematics I*

Assignment No: 2

Subject Code: *DIP 114*

Due date of submission: 10.11.2016

Instruction

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 me, and Enrolment No. clearly at the top of the page.

Q.1.

(a) Find the adjoint matrix of the matrix $A = \begin{bmatrix} 1 & 8 & 5 \\ 4 & 5 & 6 \\ 2 & 5 & 7 \end{bmatrix}$.

मैट्रिक्स $A = \begin{bmatrix} 1 & 8 & 5 \\ 4 & 5 & 6 \\ 2 & 5 & 7 \end{bmatrix}$ का adjoint मैट्रिक्स लिखिए ।

(b) Define symmetric matrix with example.

उदाहरण के साथ सममित मैट्रिक्स को परिभाषित कीजिये ।

Q.2.

(a) Separate into real and imaginary part of $\frac{2+3i}{1-2i}$.

$\frac{2+3i}{1-2i}$ को वास्तविक और काल्पनिक भाग में अलग कीजिये ।

(b) Find the center and radius of the circle if equation is given

by $x^2+4x+y^2=12$.

केंद्र और वृत्त की त्रिज्या ज्ञात कीजिये जिसका समीकरण $x^2+4x+y^2=12$ है ।

Course: DPHY 113 Applied Physics

Assignment: 2

Due date of submission: 10/11/2016

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) Describe law of Continuity with suitable examples in Fluid Mechanics.

Q 1(B) Discuss Various applications of Bernoulli's Theorem.

Q 2 (A) Describe the concept of work, heat how that both are Equivalent to each other.

Q2 (B) Explain Zeroth Law first law, second law, third law of thermodynamics with suitable diagram.



ASSIGNMENT-2

Course- Diploma All Branch **Sub code-**

Sub-Year- 1st year/1stsem

Last date of Submission-06/11/2016

Instruction

- 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 Enrollment nu clearly at the top of the page.

Q1.

- a). What is liquification of gases? Explain with the help of joule Thomson effect.

गैसों के द्रवीकरण से क्या समझते हैं ? जूल थॉमसन प्रभाव की मदद से समझिये?

- b). What is metallurgy? How pure iron metal is obtained from its Ore.

धातु विज्ञान क्या है ? कैसे शुद्ध लोहा धातु इसकी अयस्क से प्राप्त होता है

Q2.

- a). What is the causes and effects of air pollution?

वायु प्रदूषण के कारण और प्रभाव क्या है?

- b). Describe the green house effect.

ग्रीन हाउस प्रभाव का वर्णन करें।

Course Code: DIP-115
Class: DIPLOMA (All Branch)-1st Sem.
Title: Computer Fundamentals and Applications
Assignment Number: 2
Last Dates for Submission: 10th Nov, 2016

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 No. clearly at the top of the page.

Question 1:

a) What are the uses of various components of motherboard in a computer? List at least four INPUT & four OUTPUT devices and PORTS to which these devices can be connected. Also, explain the characteristics of these INPUT & OUTPUT devices.

कंप्यूटर के मदरबोर्ड के विभिन्न घटकों का क्या प्रयोग है वह क्या है। कम से कम चार चार INPUT , आउटपुट डिवाइस और पोर्ट जो करने के लिए इन डिवाइस कनेक्ट कर सकते हैं। उनका विवरण और स्पष्टीकरण दें। इसके अलावा, इन इनपुट आउटपुट डिवाइस की विशेषताओं का व्याख्या करें।

b) What is Virus in a computer? Why do you need virus detection software? What are the Advantages & Drawbacks of Anti-Virus software? Explain the importance of backup & Recovery for a computer system.

कंप्यूटर में वायरस क्या है। वायरस का पता लगाने के लिए सॉफ्टवेयर की आवश्यकता क्यों है। एंटी वायरस सॉफ्टवेयर की लाभ और कमियाँ क्या हैं? एक कंप्यूटर सिस्टम के लिए बैकअप और रिकवरी के महत्व को समझाएँ।

Question 2:

a) What do you understand by the term 'Internet'? How internet is different from INTRANET? Discuss four uses of internet for education.

b) Define the term 'Data'. Discuss the uses of mobile devices/phones as a tool for sharing of data and resources. Also, explain the following with suitable diagrams and examples.

- i) Digital transmission
- ii) Analog transmission
- iii) Serial transmission
- iv) Parallel transmission.
- v) MODEM
- vi) Routers

Diploma (1st Semester), B.Sc. AG-3rd sem.

Course: DIP 111 Professional Communication

Assignment No: 2

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 No. clearly at the top of the page.

- Q. 1 (a) What is the difference between listening and hearing? Explain listening process in detail.
- (b) How many types of listening have you studied? Define one way and two way communication.
- Q.2 (a) What are presentation skills? Explain all the skills in detail.
- (b) What is group discussion? Give some tips for group discussion.



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-10/10/2016

Course: EY-111, Conventional Energy Resources

Assignment No. 2

Due date of submission: 10/11/2016

Instructions

1. Write the responses to the assignment in your own handwriting & don't copy from other's assignment.
2. Submit the responses to your HOD within due date.
3. Write your name, programme and Enrollment no. clearly at the top of the page.
4. Each question's part carries 5 marks.

Q.1

(a) Differentiate between nuclear fission and nuclear fusion.

नाभिकीय विखंडन और नाभिकीय संलयन के बीच अंतर स्पष्ट करें।

(b) Write short notes on;

- (i) Higher calorific value (ii) Lower calorific value

लघु नोट लिखें;

(i) उच्च कैलोरी मान

(ii) न्यून कैलोरी मान

Q.2

(a) Determine the calorific value of a solid fuel using Bomb Calorimeter.

बम कैलोरीमीटर का उपयोग कर एक ठोस ईंधन का लोरिफिक मूल्य निर्धारित करें।

(b) Explain the types of coal found in India.

भारत में पाए जाने वाले कोयले के प्रकार की व्याख्या करें।