



MONAD UNIVERSITY HAPUR (UP)

Course: Diploma-1,

Subject Name: *Applied Mathematics I*

Assignment No: 1

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 inverse 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 परिवर्त ज्ञात कीजिये ।

(b) Write about row matrix, column matrix, null matrix, identity matrix with example.

पंक्ति मैट्रिक्स, स्तंभ मैट्रिक्स, इकाई मैट्रिक्स, उदाहरण के साथ मैट्रिक्स की पहचान के बारे में लिखें।

Q2.

(a) Define complex number, conjugate and modulus of a complex number with example.

समिश्र संख्या, समिश्र संख्या के संयुग्मी और मापांक को उदाहरण के साथ परिभाषित कीजिये |
(b) Divide into real and imaginary parts of $e^{\sin(x+iy)}$.
 $e^{\sin(x+iy)}$ को वास्तविक और काल्पनिक हिस्सों में विभाजित कीजिये |

Course: DPHY 113 Applied Physics

Assignment: 1

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) Define Principle of homogeneity of dimensions. Give at least two

Examples.

Q 1(B) Elaborate the application of dimension analysis with examples.

Q 2 (A) Explain Uniform circular motion with equations of motion.

Q2 (B) Explain the term surface tension. Elaborate capillarity with examples.

ASSIGNMENT-1

Course- Diploma (all branch)

Sub code-

Sub-Applied Chemistry 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) Give the different types of models to explain the structure of atom.
मॉडल के विभिन्न प्रकार दे परमाणु की संरचना समझाने के लिए।
- b) Define the periodic table and explain the properties of periodic table.
आवर्त सारणी परिभाषित करें और आवर्त सारणी के गुणों को समझाओ।

Q2.

- a) What is buffer solution ? explain different types of buffer solution.
बफर विलयन क्या है? बफर विलयन के विभिन्न प्रकार समझा।
- b) Explain the kinetic theory of gases and give vander waal equation for real gases.
गैसों की गतिज सिद्धांत की व्याख्या और वास्तविक गैसों के लिए वान डेर वाल समीकरण दे।



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

Instructions

4. Write the responses to the assignment in your own handwriting.
5. Submit the responses to your HOD within the due date.
6. Write your Name, Programme, and Enrolment No. clearly at the top of the page.

Question 1:

a) What is the need of Operating system for a Computer System? Explain the file management, I/O Management and memory management in the context of Operating system with the help of an example.

a) एक कंप्यूटर सिस्टम के लिए ऑपरेटिंग सिस्टम की जरूरत क्या है? एक उदाहरण की मदद से ऑपरेटिंग सिस्टम के संदर्भ में फ़ाइल प्रबंधन, I/O प्रबंधन और स्मृति प्रबंधन को स्पष्ट कीजिए।

b) Explain the uses and/or facilities provided by the following software:

b) निम्नलिखित सॉफ्टवेयर द्वारा प्रदान / उपयोग/ सुविधाओं के बारे में बताएं।

(i) E-mail

(ii) Database Management System

(iii) Power Point

(iv) Word Processing

Question 2:

a) Convert the following numbers as directed

a) दिए गए निर्देशों के अनुसार निम्नलिखित रूपांतरण करें ।

i) Decimal 325.61 into Binary.

ii) Decimal 112 into Binary.

iii) Binary 11110011 to Decimal.

iv) Binary 111.0101 to Decimal.

v) Binary Multiplication of 1111 and 1010

b) What do you understand by the term 'Network'? What is the difference between a Network and Networking? Explain the following with the help of example.

b) आप शब्द का 'नेटवर्क' से क्या समझते हैं? नेटवर्क और नेटवर्किंग के बीच क्या अंतर है? उदाहरण की मदद से निम्नलिखित समझाओ ।

- 1) LAN
- 2) MAN
- 3) WAN
- 4) PAN

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

Course: DIP 111 Professional Communication

Assignment No: 1

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) How many types of sentences have you studied? Define them with the help of examples. Examples should be 10 in numbers of each type.
- (b) Define Preposition. Write 10 examples of simple and compound preposition containing their use in the sentences.
- Q.2 (a) Write a note on Verbal Communication. Define oral and Written Communication.
- (b) Define Interpersonal Communication skills. What are the steps to improve Interpersonal Communication skills?



DEPARTMENT OF MECHANICAL ENGINEERING
MONAD UNIVERSITY, HAPUR

Dated:-.....

Course: EY-111, Conventional Energy Resources

Assignment No: 1

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) Explain energy and describe its various forms.

ऊर्जा के बारे में बताएं और उसके विभिन्न रूपों का वर्णन करें।

(b) Write short notes on

(i) Heat (ii) Temperature (iii) Specific Heat (iv) Ohm's law

लघु नोट लिखें

(i) ऊष्मा (ii) तापमान (iii) विशिष्ट ताप (iv) ओम कानून

Q.2

(a) What is acid rain? What are the disadvantages of acid rain?

अम्ल वर्षा क्या है? अम्ल वर्षा के नुकसान क्या हैं?

(b) What are fossil fuels? Explain fractional distillation.

जीवाश्म ईंधन क्या हैं? आंशिक आसवन समझाओ।

