



## CONDENSE MATTER PHYSICS

**Assignment No: 01**

**Due Date of Submission: 12 March 2019**

**Course Code: - MPHY-121**

Instructions:

- Write the responses to the assignment in your own handwriting.
- Submit the responses to your HOD with in the due date.
- Write your Name, Programme & Enrolment No. Clearly at the top of the page.

Question: 01

- (a) As we are aware of crystal structure .with suitable diagram, explain lattice and Bravis in detail.
- (b) Symmetry is a very important parameter in crystal structure. Write an overview of it with examples.

Question: 02

- (a) As we are aware of reciprocal lattice vector. Give the physical significance of it.
- (b) As you are aware of packing fraction. Write its importance in crystal structure.



## ELECTRODYNAMICS AND PLASMA PHYSICS

**Assignment No: 01**

**Due Date of Submission: 12 March 2019**

**Course Code: - MPHY-122**

Instructions:

- Write the responses to the assignment in your own handwriting.
- Submit the responses to your HOD with in the due date.
- Write your Name, Programme & Enrolment No. Clearly at the top of the page.

Question: 01

- (a) As you are aware of image charge problem. Using example show, how problem is solved.
- (b) Discuss in detail the Neumann boundary conditions of electric and magnetic field.

Question: 02

- (a) Maxwell's equations are very important in electricity and magnetism. Discuss the physical significance of each.
- (b) Write short note on Poynting theorem and Poynting vector.



## STATISTICAL PHYSICS

**Assignment No: 01**

**Due Date of Submission: 12 March 2019**

**Course Code: - MPHY-123**

Instructions:

- Write the responses to the assignment in your own handwriting.
- Submit the responses to your HOD with in the due date.
- Write your Name, Programme & Enrolment No. Clearly at the top of the page.

Question: 01

- (a) You are aware of macroscopic and microscopic world. Give the criterion on which macroscopic and microscopic terms are decided.
- (b) Write an overview on ensemble theory with examples.

Question: 02

- (a) You are aware of phase space. Show that trajectory of harmonic oscillator is ellipse in phase space.
- (b) Discuss the applications of Liouville's theorem.



## **ENERGY AUDIT, CONSERVATION AND MANAGEMENT**

**Course Code: - MPHY 124**

**Assignment: 1**

**Due date of submission: 12/March/2019**

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.

Question: 01

- (a) What is Energy Audit and explain its necessity in present scenario?
- (b) Explain the methods used for energy saving in oil mill.

Question: 02

- (a) Explain the importance of quality of electricity supplied to driven machines.
- (b) Explain how co-generation is advantageous over conventional power plant.



## **ENTREPRENEURSHIP DEVELOPMENT**

**Course Code: - MBA-124**

**Assignment: 1**

**Due date of submission: 12/March/2019**

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.

Question: 01

- (a) What do you understand by Entrepreneurship development?
- (b) What are the benefits of developing entrepreneurship for yourself and the society?

Question: 02

- (a) Study any one Entrepreneur and explain his success story in your own words.
- (b) What are your findings and learning from it?