



CONDENSE MATTER PHYSICS

Assignment No: 02

Due Date of Submission: 22 April 2019

Sub 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 you are aware of quantum theory of magnetism. Explain how it is different from classical one.
- b) As you are aware of magnons using magnon dispersion relation Explain ferromagnetisms?

Question: 02

- a) As you are aware of superconductivity using BCS Theory .Explain superconductivity.
- b) Write short note on
 - (i) London equations.
 - (ii) Meissner effect.
 - (iii) Isotope effect.



ELECTRODYNAMICS AND PLASMA PHYSICS

Assignment No: 02

Due Date of Submission: 22 April 2019

Sub 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) You are aware of EM wave guides write notes on:

- (i) T.E Modes.
- (ii) TM Modes.
- (iii) TEM Modes.

b) As you are aware of power of electromagnetic wave .How can you measure it theoretically?

Question: 02

a) What do you mean by electric quadropole and electric dipole fields?

b) A charge particles is revolving around some nuclear positive charge. Calculate power radiated by charged particle.



STATISTICAL PHYSICS

Assignment No: 02

Due Date of Submission: 22 April 2019

Sub Code: - MPHY-123

Instructions:

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Question: 01

- a) You are aware of density of state .find the formula for density of state of a particles confined to a box of side l .
- b) As you are aware of partition function of any example. Calculate Gibbs free energy enthalpy using partition function.

Question: 02

- a) You are aware of Bose Einstein condensation .Explain population inversion and show it is achieved.
- b) Find the density matrix of an identical particles arranged in a canonical assemble.



ENERGY AUDIT, CONSERVATION AND MANAGEMENT

Course MPHY 215

Assignment: 2

Due date of submission: 22 April 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) Explain the role of manager in energy management and discuss clearly his functions and duties?
- b) Explain the net present work method used for analysis of economics in energy management

Question: 02

(a) As you are aware the energy conservation. Explain the energy conservation measures in industrial sectors.

(b) Write a short note on:

(i)	Life cycle costing analysis.
(ii)	Energy efficiency electric motors.
(iii)	Energy saving in domestic buildings.



ENTREPREURSHIP DEVELOPMENT

Assignment No: 02

Due Date of Submission: 22 April 2019

Sub Code: - MBA-124

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) What are the Stages of economic development?
- b) Name Govt. Policies for SSIs and explain any one.

Question: 02

- a) Read and explain the struggling to success story of any Woman entrepreneur.
- b) What do you mean by Venture capital? Give an example of venture capital in brief.