

Time Allowed : 15 Minutes

Maximum Marks : 10

Signature of Deputy Supdt. _____

Note : Use this paper to write the answers to the objective questions. No mark will be awarded for cutting, over-writing or using a pencil. This paper must be tagged with the answer-book.

1. Some possible answers to each statement are given below. Tick (✓) mark the correct answer : 10

(i) Air is : (Mixture , Compound , Element , None of these)

(ii) The neutral PH is : (0 , 7 , 14 , None of these)

(iii) The symbol of silver is : (Ag , Au , SI , SE)

(iv) Iodine is a : (Gas , Liquid , Solid , None of these)

(v) Pressure is : (Force , Energy , Wave , Weight)

(vi) Dalton law/ ^{of} partial pressure Governs :

(Solid , Liquid , Gases , None of these)

(vii) Stars twinkle due to :

(Reflection , Refraction , Conduction , Induction of light)

(viii) Electrons are the essential part of :

(Matter , Not essential part of matter , None of these)

(ix) Metals are : (Good conductor , Bad conductor ,

Non conductor , Semi conductor of electricity)

(x) Freely object move due to force of :

(Pressure , Motion , Gravitation , None of these)

Roll No _____ (To be filled in by the candidate)

(Academic Sessions 2006-2008 & 2007-2009)

APPLIED SCIENCES (PHYSICS & CHEMISTRY)

PAPER - I (Essay Type)

208-(FIRST YEAR)

Time Allowed : 1.45 hours

Maximum Marks : 40

Note : All questions are to be attempted on the answer book.

SECTION - I

2. Write any TWELVE (12) short answers of the following questions :

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(i) Define the following terms :

(a) Empirical formula. (b) Atom.

(ii) What do you understand by chemical reaction. Give balanced equation for the following reaction :

(a) Sodium and water. (b) Calcium oxide and water.

(iii) Write short note on filtration.

(iv) Define ionic salt and covalent salt. Give examples.

(v) Describe briefly the process of distillation.

(vi) How you can prepare oxygen?

(vii) What do you understand by the term normality?

(viii) What do you mean/vapourization? Give its example in the daily life.

(ix) Define the following terms :

(a) Speed (b) Velocity. (c) Motion.

(x) Describe Dalton's law of partial pressure, give example.

(xi) Define law of reflection of light.

(xii) What do you mean by law of conservation of energy?

(xiii) Define 1st law of motion, with examples.

(xiv) Define normality, give one example of 1 N solution.

(xv) Define molarity, give one example of molar solution.

(xvi) Describe the fractional distillation.

(xvii) Define law of inertia.

(xviii) Give Ohm's law.

SECTION - II

Note : Attempt any TWO questions.

3. How twinkling of stars in the sky is explained/ ^{by} law of refraction of light?

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4. What do you understand by gravitation? Give law of gravitational forces?

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5. What are the different concentration units of solution? Give one example in each case.

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