Progressive Education Society's
Modern College of Arts, Science & Commerce Ganeshkhind, Pune – 16
End Semester Examination: Jan.2023
Faculty: Science and Technology

Program:Bsc 09 **Semester: I** **SET: A**
Program (Specific): BSc General **Course Type: CC**
Class: FYBSc **Max.Marks: 35**
Name of the Course:Basics of Applied Electronics
Course Code: 22-EL111 **Time: 2Hr**
Paper: I

Instructions to the candidate:

1) *There are 4 sections in the question paper. Write each section on separate page.*
2) *All Sections are compulsory.*
3) *Figures to the right indicate full marks.*
4) *Draw a well labelled diagram wherever necessary.*

SECTION: A

Q1) Explain the following **5**

1)State Kirchoffs Voltage law

2)What is Inductance of Inductor

3)State working principle of Battery

4)State important specifications of Relay

5)What is the function of a Switch

Q2) Answer the following (Solve any 4) **4**

1)State Maximum Power Transfer Theorem

2)Explain Capacitive Reactance

3)State Kirchoffs Current Law

4)What is Electronic System

5)State function of SIM card in smart phone

6)What is Ideal voltage source

SECTION: B

Q3) Answer the following (Attempt any 4) **8**

1))State any Four important features of Smart phone
2))What is CCTV system
3)) What is Thermostate
4))Expain Tolerence of Resistance
5))Write short note on cables
6))Write short note on connectors in Electronics equipment

SECTION: C

Q4) Answer the following (Attempt any 4) **8**

1) **Explain Series combination of Inductor**
2) **What is GPS feature in smart phone**
3) **Explain touch screen operation in smart phone**
4) **Fuse is called as safety device Explain**
5) **Explain working of series LCR circuit**
6) **Explain parallel combination of Capacitor**

SECTION: D

Q5) Answer the following (Attempt any 2) **10**

1)Explain Public Address system

2)Explain 4 Band colour code system used to indicate the value of Resistors

3)State and Explain Superposition Theorem

4)State the function of SIM card in smart phone