PHYSICS   (INTER PART-II)

PRACTICAL

Time : 3.00 Hours   PAPER : 4   Marks : 30

NOTE (i)   The candidate will mark two experiments from Section-I and two from

Section-II

(ii)   The Examiner will allot ONE experiment out of marked experiments to

perform experiment from each Section.

SECTION-I

1. Find the value of "g" by oscillating mass spring system.   10

2. Find moment of inertia of fly wheel.   10

3. Find focal length of convex lens by displacement method.   10

SECTION-II

4. Find resistance of galvanometer by half deflection method.   10

5. Find resistance of a given voltmeter.   10

6. Determine emf of a cell by using a potentiometer.   10

SECTION-III

7. (i) Draw one graph by given data as allotted by examiner.   05

$1/p$ (cm^{-1})	0	0.02	0.06	0.08	0.10
$1/q$ (cm^{-1})	0.10	0.086	0.06	0.02	0

(ii)

F(N)	20	40	60	80	100	120
X(cm)	2	4	6	8	10.2	12.1

8. Practical Notebook + Viva Voce.

                                                                           2+3

PHYSICS   (INTER PART-II)

PRACTICAL

Time : 3.00 Hours   PAPER : 7   Marks : 30

NOTE: (i)   The candidate will mark two experiments from Section-I and two from

Section-II

(iii)   The Examiner will allot ONE experiment out of marked experiments to perform

experiment from each Section.

SECTION-I

1. Verify second condition of equilibrium by suspended meter rod.   10

2. Find value of "g" by free fall method using electronic timer.   10

3. Find area of cross section of a wire by screw gauge.   10

SECTION-II

4. Find resistance of galvanometer by half deflection method.   10

5. Find resistance of a given voltmeter.   10

6. Study the reverse and forward characteristics of diode.   10

SECTION-III

7. (i) Draw one graph by given data as allotted by examiner.

   05

$\sqrt{L}$ $(cm^{1/2})$	6	7	8	9	10
T(s)	1.2	1.4	1.6	1.8	2.0

(ii)

C(µF)	0.2	0.4	0.6	0.8	1.0
I (mA)	4	8	12	16	20

8. Practical Notebook + Viva Voce.   2+3

PHYSICS   (INTER PART-II)

PRACTICAL

Time : 3.00 Hours   PAPER : 8   Marks : 30

NOTE (i)   The candidate will mark two experiments from Section-I and two from Section-II

(iv)   The Examiner will allot ONE experiment out of marked experiments to perform experiment from each Section.

SECTION-I

1. Verify the second condition of equilibrium using suspended meter rod.   10

2. Find refractive index of a glass prism by critical angle method.   10

3. Prove that time period of a simple pendulum is independent of its mass.   10

SECTION-II

4. Find resistance of given wire by slide wire bridge.   10

5. Set up a burglar alarm using NAND gate.   10

6. Find the relation between current and capacitance when different capacitors are used in an AC circuit.   10

SECTION-III

7. (i) Draw one graph by given data as allotted by examiner.

05

$\frac{1}{d^2}(cm^{-2})$	45×10^{-5}	50×10^{-5}	55×10^{-5}	60×10^{-5}	65×10^{-5}
I (mA)	4×10^{-6}	6×10^{-6}	8×10^{-6}	10×10^{-6}	12×10^{-6}

(ii)

V(volt)	0	1	2	3	4	5
I (mA)	4	8	12	16	20	0.81

8. Practical Notebook + Viva Voce.

2+3

PHYSICS   (INTER PART-II)

PRACTICAL

Time : 3.00 Hours   PAPER : 11   Marks : 30

NOTE (i)   The candidate will mark two experiments from Section-I and two from

Section-II

(ii)   The Examiner will allot ONE experiment out of marked experiments to perform

experiment from each Section.

SECTION-I

1. Find the area of cross section of wire by screw gauge.   10

2. Find moment of inertia of a fly wheel.   10

3. Find speed of sound at room temperature with end correction using resonance

tube.   10

SECTION-II

4. Find resistance of galvanometer by half deflection method.   10

5. Verify truth table for "OR" and NOR gate.   10

6. Determine high resistance by Neon flash lamp.   10

SECTION-III

7. (i) Draw one graph by given data as allocated by examiner.

05

$V(ms^{-1})$	5.73	5.78	5.83	5.88	5.92
t(s)	0.6	0.7	0.8	0.	1.0

(ii)

m(gm)	50	100	150	200	250
T(s)	1.80	2.00	2.21	2.40	2.61

8. Practical Notebook + Viva Voce.   2+3