

**INTERNAL ASSESSMENT FOR CLASS - XII**

(Session: 2022-23)

**ENGLISH: LANGUAGE & LITERATURE**

**TOPICS FOR ASL (Assessment for Speaking and Listening):**

1. Women Empowerment
2. Social Media Ethics
3. Child Marriage
4. Feminism
5. Fighting Against Ragging

**PORTFOLIO/PROJECT WORK**

- Cover page, with title of project, school details/details of students
- Introduction
- Acknowledgement
- Index
- Each year the International Day of Peace is observed around the world on 21<sup>st</sup> September. The theme for this year was, "End Racism, Build Peace" Write in about 150 words a report on the theme.
- Write an article in about 150 words on, "Students on ice: Preparing Global Citizen".
- Last Page: LIST OF RESOURCES/BIBLIOGRAPHY

**MATHEMATICS**

**LAB ACTIVITY:**

1. To demonstrate a function which is not one-one but is onto.
2. To understand the concepts of increasing and decreasing functions.
3. To understand the concept of local maxima, local minima and point of inflexion.
4. To measure the shortest distance between two skew lines and verify it analytically.
5. To explain the computation of conditional probability of a given event A, when event B has already occurred.
6. To verify that for a given function  $f$  to be continuous at given point  $x=0$ .
7. To understand concept of absolute maximum and minimum values of a function in given closed interval.

**BIOLOGY**

**Portfolio Topic:**

Recombinant DNA Technology

**Lab Records:**

1. Flowers adapted to pollination by different agencies (wind, insects, birds)
2. Pollen germination on stigma through a permanent slide
3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice)
4. Meiosis in onion bud cell or grasshopper testis through permanent slides
5. T.S. of blastula through permanent slides (Mammalian)
6. Prepared pedigree charts of any one of the genetic traits such as rolling of tongue, and widow's peak
7. Prepare a temporary mount to observe pollen germination.
8. Study the plant population density by quadrat method.
9. Study the plant population frequency by quadrat method.
10. Prepare a temporary mount of onion root tip to study mitosis.
11. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.

**CHEMISTRY**

**LAB - MANUAL WORK**

**SECTION - E**

**CHROMATOGRAPHY**

**5.1. Chromatography**

Separation of pigments from extracts of leaves and flowers by paper Chromatography and determination of Rf values.

**5.2 of constituents present in an inorganic mixture containing two cations Only (constituents having large difference in Rf values to be provided)**

**SECTION - G**

Preparation of organic compound

**7.1 To prepare about 5 g of acetanilide.**

**SECTION - H**

**FUNCTION GROUP TEST**

Aldehydes, ketones, Carboxylic acids, Amine, Unsaturation Test, phenol

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### SECTION - J

Determination of concentration/ molarity of  $\text{KMnO}_4$  solution by titrating it Against a standard solution of:

- (a) Oxalic acid,
- (b) Ferrous Ammonium Sulphate

(Students will be required to prepare standard solution)

### SECTION - K

Qualitative analysis

Determination of one anion and one cation in a given salt:

Cation:-  $\text{Cu}^{2+}$ ,  $\text{Fe}^{3+}$ ,  $\text{Ba}^{2+}$ ,  $\text{Zn}^{2+}$ ,  $\text{Mg}^{2+}$

Anion:-  $\text{NO}_2^-$ ,  $\text{Cl}^-$ ,  $\text{CO}_3^{2-}$ ,  $\text{PO}_4^{3-}$ ,  $\text{CH}_3\text{COO}^-$

### INVESTIGATORY PROJECT

Report on to Study the Digestion of Starch by Salivary Amylase and Effect of pH and Temperature on it.

## PHYSICS

### EXPERIMENTS

1. To determine resistance per cm of a given wire by plotting a graph of potential difference versus current.
2. To find resistance of a given metre bridge and hence determine the resistivity (Specific resistance) of its material.
3. To verify the laws of combination(series) of resistances using a metre bridge.
4. To find the frequency of the A.C. mains with a sonometer.
5. To assemble a household circuit comprising 3 bulbs, three(on/off) switches, a fuse and a power source.
6. To assemble the components of a given electrical circuit and to find current by measuring voltage across a give resistor.
7. To draw the diagram of a given open circuit comprising at least a battery, resistor/ rheostat, key, ammeter and voltmeter. Mark the components that are not connected in a proper order and correct the circuit and also the circuit diagram.
8. To find the focal length of a convex lens by plotting graphs between u and v or between  $1/u$  and  $1/v$ .
9. To determine the angle of minimum deviation for a given prism by plotting a graph between the angle of incidence and the angle of deviation
10. To determine the refractive index of a glass slab using a travelling microscope.

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### **ACTIVITIES**

1. To draw the I-V characteristic curve for a p-n junction diode in forward bias and reverse bias.
2. To observe refraction and lateral deviation of a beam of light incident obliquely on a glass slab.
3. (a). To study the nature and size of the image formed by a convex lens using a candle and a screen (for different distances of the candle from the lens).  
  
(b). To study the nature and size of the image formed by a concave mirror on a screen using a candle and a screen.
4. To obtain a lens combination with the specified focal length by using two lenses from the given set of lenses.

### **INVESTIGATORY PROJECT**

To study the various factors on which the internal resistance/e.m.f. of a cell depends.

## **PHYSICAL EDUCATION**

### **LAB - MANUAL WORK**

**Practical-1:** Fitness tests administration

**Practical-2:** Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease.

**Practical-3:** Anyone IOA recognized Sport/Game of choice. Labelled diagram of Field & equipment. Also mention its history, rules, skills, terminologies and fouls etc.

**Note: Last date for the submission of Lab Manuals, Project Files and Art Integrated Project is 07-01-2022**