



Certificate For Metrics 1.3.2

It is Certified that following practical work was done by the students of B.Sc I year in the subject of Chemistry and appeared in the practical examination by giving their records.

Inorganic Chemistry

A. Semi-micro qualitative analysis (using H₂S or other methods) of mixtures - not more than four ionic species (two anions and two cations, excluding interfering, in soluble salts) out of the following:

Cations: NH₄⁺, Pb²⁺, Bi³⁺, Cu²⁺, Cd²⁺, Fe³⁺, Al³⁺, Co, Ni, Mn, Zn, Ba, Sr, Ca, Na⁺,

Anions: CO₃²⁻, S²⁻, SO₃²⁻, S₂O₃²⁻, NO₂⁻, CH₃COO⁻, Cl⁻, Br⁻, I⁻, NO₃⁻, SO₄²⁻. (Spot tests may be carried out wherever feasible)

Qualitative Analysis

Detection of elements (N.S. and halogens) and functional groups (Phenolic, Carboxylic, Carbonyl, Esters, Carbohydrates, Amines, Amides, Nitro and Anilide) in simple organic compound.

Physical Chemistry

1. Surface tension measurements


Surface tension composition curve for a binary liquid mixture.

2. Viscosity measurement using Ostwald's viscometer

Study of the variation of viscosity of sucrose solution with the concentration of solute.

Enclosed:- List Of B.Sc. I Year Student

Sample of Practical Record


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Certificate For Metrics 1.3.2

It is Certified that following practical work was done by the students of B.Sc II year in the subject of chemistry and appeared in the practical examination by giving their record.

Inorganic Chemistry

Quantitative Analysis

Volumetric Analysis

Determination of acetic acid in commercial vinegar using NaOH.

Estimation of ferrous and ferric by dichromate method .

Organic Chemistry

paper Chromatography : Ascending and Circular .

Determination of RF values and identification of organic compounds.

Quantative Analysis


Identification of an organic compound through the functional group analysis, determination of melting point and preparation of derivatives . (Aliphatic and aromatic)

Physical chemistry

Phase Equilibrium

1. To study the effect of a solute (e.g. NaCl, Succinic acid) on the critical solution temperature of two partially miscible liquid (e.g. Phenol-Water system and to determine the concentration of that solute in the given phenol- water system)

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Sample of Practical Record


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It is Certified that following practical work was done by the students of B.Sc III year in the subject of chemistry and appeared in the practical examination by giving their record.

INORGANIC CHEMISTRY

Gravimetric analysis

Estimation of Barium as BaSO₄

Inorganic Preparations

Tetraamminecopper (II) sulphate, [Cu(NH₃)₄]SO₄·H₂O.

cis and trans K[Cr(C₂O₄)₂(H₂O)₂] Potassium dioxalato diaquachromate (III).

Tetraamminecobalt (III) ion.

ORGANIC CHEMISTRY


Qualitative analysis of an organic mixture containing two solid components using water, NaHCO₃, NaOH for separation and preparation of suitable derivatives.

Physical Chemistry

UV/Visible spectroscopy

Verify Lambert-Beer's law and determine the concentration of CuSO₄/KMnO₄ K₂Cr₂O₇, in a solution of unknown concentration.

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Sample of Practical Record


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Certificate For Metrics 1.3.2

It is Certified that following practical and Survey work was done by the students of B.A. I year in the subject of Geography and appeared in the practical examination by giving their record.


Section A (Cartography and Statistical Methods)

1. Scale- Statement Scale, Representative Fraction (R.F.), Linear scale- Simple, Diagonal, Comparative, and Time Scales.
2. Contour: Methods of showing relief; Hachures, Contours; Representation of different landforms by contours.
3. Graph and Diagram: Line Graph, Bar Diagram (Simple and Compound), Circle Diagram, Pie Diagram
4. Statistical Technique: Mean, Median and Mode.

Section B (Surveying)

Chain and Tape Survey. Triangulation method, Open Traverse and Closed Traverse

Enclosed:- List Of B.A.I Year Student
Sample of Practical and Survey Record


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It is Certified that following practical and Survey work was done by the students of B.A. II year in the subject of Geography and appeared in the practical examination by giving their record.

Section A (Map Interpretation Projection and Spastical Methods)

1. Distribution Map: Dot Map, Choropleth Map and Isopleth Map.
2. Map Projection : Definition and Classification; Conical, Zenithal and Cylindrical Projection.
3. Interpretation of Weather Maps: Use of Meteorological Instruments.
4. Statistical Methods: Quartile: Mean Deviation, Standard Deviation and Quartile Deviation Relative Variability and Co efficient of Variation.

Section B (Surveying)

5. Surveying : Whole Circle Bearing and Reduced Bearing, Methods of Prismatic Compass Survey.

Enclosed:- List Of B.A.II Year Student
Sample of Practical and Survey Record

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Certificate For Metrics 1.3.2

It is Certified that following practical And Survey work was done by the students of B.A. III year in the subject of Geography and appeared in the practical examination by giving their record.

SECTION A (MAP READINGS AND INTERPRETATION)

UNIT 1 Graphical Representation Band graph, Climograph, Square root, Cube root.

UNIT-II Topographical Sheets: Classification and numbering system (National and International), Interpretation of Topographical Sheets with respect to cultural and physical features.

UNIT-III Imageries Describing the marginal information, Image interpretation: Satellite Visual Methods— Land use / Land cover Mapping. Use and Application of GPS.

SECTION B (SURVEYING AND FIELD REPORT)

UNIT-IV Surveying: Plane Table Survey, Basic Principles of plane table surveying, Plane table survey including intersection and resection.

UNIT-V Field work and field report: physical, social and economic survey of a micro region.

Enclosed:- List Of B.A.III Year Student
Sample of Practical , Project And Survey Record

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Certificate For Metrics 1.3.2

It is Certified that following practical work was done by the students of B.Sc I year in the subject of Botany and appeared in the practical examination by giving their record.

Study of external (Morphogical) and internal (microscopic/anatomical) features of representative gerera given in the theory. Vaucheria, Chara

1. Algae: Gloeocapsa, Scytonema, Gloeotrichia, Volvox, Oedogonium, Ectocarpus. Sargassum, Batrachospermum
2. Gram staining
3. Fungi: Albugo, Aspergillus, Peziza, Agaricus, Puccinia, Alternaria and Cercospora
4. Bryophyta: Riccia, Marchantia, Pellia, Anthoceros, Sphagnum, Funaria
5. Pteridophyta: Lycopodium, Selaginella, Equisetum, Marsilea.
6. Gymnosperm: Cycas, Pinus, Epherda.

Enclosed:- List Of B.Sc.-I Year Student
Sample of Practical Record

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Certificate For Metrics 1.3.2

It is Certified that following practical work was done by the students of B.Sc II year in the subject of Botany and appeared in the practical examination by giving their record.

1. Taxonomy: Detailed description and identification of locally available plants of the families as prescribed in the theory paper.
2. Economic Botany: Identification and comment on the plants and plant products belonging to different economic use categories
3. Preparation of Herbarium of local wild plants. 4. Quantitative vegetation analysis of a grassland ecosystem.
5. Anatomical characteristics of hydrophytes and xerophytes.
6. Demonstration of root pressure.
- Demonstration of transpiration.
8. Demonstration of evolution of O₂ in photosynthesis, factors affecting of photosynthesis. 9. Comparison of R.Q. of different respiratory substrates.
10. Demonstration of fermentation. 11. Determination of BOD of a water body.
12. Demonstration of mitosis.

Enclosed:- List Of B.Sc II Year Student
Sample of Practical Record

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Certificate For Metrics 1.3.2

It is Certified that following practical work was done by the students of B.Sc III year in the subject of Botany and appeared in the practical examination by giving their record.

1. Study of host parasite relationship of plant diseases listed above.
2. Demonstration of preparation of Czapek's Dox medium and Potato dextrose agar medium, sterilization of culture medium and pouring.
3. Inoculation in culture tubes and petriplates.
4. Gram Staining.
5. Microscopic examination of Curd.
6. Study of plant diseases as listed in the theory paper.
7. Biochemical test of carbohydrate and protein. 8. Instrumentation techniques

Enclosed:- List Of B.Sc III Year Student
Sample of Practical Record


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It is Certified that following practical work was done by the students of B.Sc I year in the subject of Zoology and appeared in the practical examination by giving their record.


The practical work will, in general be based on the syllabus prescribed in theory and the candidates will be required to show knowledge of the following: Dissection of Earthworm, Cockroach, Palaemon and Pila

Minor dissection-appendages of Prawn & hastate plate, mouth parts of insects, radulla of Pila. (Alternative methods: By Clay/Thermacol/drawing/Model etc.)

Adaptive characters of Aquatic, terrestrial, aerial and desert animals. Museum specimen invertebrate

Slides- Invertebrates, frog embryology, Chick embryology and cytology.

Enclosed:- List Of B.Sc I Year Student
Sample of Practical Record


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Certificate For Metrics 1.3.2

It is Certified that following practical work was done by the students of B.Sc II year in the subject of Zoology and appeared in the practical examination by giving their record.

The practical work in general shall be based on the syllabus prescribed and the students will be required to show the knowledge of the following: Study of the representative examples of the different chordates (Classified characters). Dissection of various systems of scoliodon-Afferent and Efferent branchial cranial


nerves, internal ear.

Alternative methods: By Clay/Thermacol/ Drawing/ Model etc.) Simple microscopic technique through unstained or stained permanent mount.

Study of prepared slides histological, as per theory papers. Study of limb girdles and vertebrae of Frog, Varanus, Fowl and Rabbit. Identification of species and individual of honey bee.

Life cycle of honey bee and silkworm. Exercise based on Evolution and Animal behavior.

Enclosed:- List Of B.Sc II Year Student
Sample of Practical Record


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It is Certified that following practical work was done by the students of B.Sc III year in the subject of Zoology and appeared in the practical examination by giving their record.

The practical work in general shall be based on syllabus prescribed in theory. The candidates will be required to show knowledge of the following:

Estimation of population density, percentage frequency, relative density.

Analysis of producers and consumers in grassland. Detection of gram-negative and gram-positive bacteria.

Blood group detection (A.B.AB.O)

R. B. C. and W.B.C count

Blood coagulation time Preparation of hematin crystals from blood of rat

Observation of Drosophila, wild and mutant.

Chromatography-Paper or gel. Colorimetric estimation of Protein.

Mitosis in onion root tip.. Biochemical detection of Carbohydrate, Protein and Lipid.

Study of permanent slides of parasites, based on theory paper. Working principles of pH meter, colorimeter, centrifuge and microscope.

Enclosed:- List Of B.Sc III Year Student

Sample of Practical Record


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Certificate For Metrics 1.3.2

It is Certified that following project work was done by the students of B.A. I, III year in the subject of Environmental Studies and Human Rights, and submitted their record.

1. To study the origin and development of Mount Shishupal.
2. To do environmental study of the famous (Surangi river) of your area.
3. To study the depletion of ozone layer and its environmental importance.
4. Studying ecosystems.

Enclosed:- List Of B.A. I, III. Student
Sample of Project Record


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Certificate For Metrics 1.3.2

It is Certified that following project work was done by the students of B.Sc. I, III year in the subject of Environmental Studies and Human Rights, and submitted their record.

1. Explain in detail about environmental pollution.
2. Explain food chain and food web.
3. To study the depletion of ozone layer and its environmental importance.
4. Studying ecosystems.

Enclosed:- List Of B.Sc. I, III. Student
Sample of Project Record


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Certificate For Metrics 1.3.2

It is Certified that following project work was done by the students of B.Com. I year in the subject of Environmental Studies and Human Rights, and submitted their record.

1. What is pollution? Analyze the types of environmental pollution and write the measures to prevent it.
2. Write the names and uses of medicinal plants?
3. Give information about the name, location, establishment year, area, etc. of the Wildlife Sanctuary of Chhattisgarh.
4. Give information about the name of the tourist place of Chhattisgarh, district, year of establishment, etc.

Enclosed:- List Of B.Com. I Student
Sample of Project Record


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