

**CMJ UNIVERSITY, SHILLONG**  
**REGULATION FOR BA POLITICAL SCIENCE**  
**Duration – Three Years**  
**Eligibility - 10+2 in any stream**

**Scheme of Distribution of Marks**

<b>Sr. No.</b>	<b>First Year</b>	<b>Internal Assessment Marks</b>	<b>Term End Examination</b>	<b>Total Marks</b>	<b>Passing Marks</b>
1	Computer Science-I	30	70	100	40
2	English-I	30	70	100	40
3	Principles Of Political Science	30	70	100	40
4	Principles Of Public Administration	30	70	100	40
5	Environmental Science	30	70	100	40
<b>Sr. No.</b>	<b>Second Year</b>	<b>Internal Assessment Marks</b>	<b>Term End Examination</b>	<b>Total Marks</b>	<b>Passing Marks</b>
1	Computer Science –II	30	70	100	40
2	English-II	30	70	100	40
3	Political Science-II	30	70	100	40
4	Public Administration-II	30	70	100	40
5	Education-II	30	70	100	40
<b>Sr. No.</b>	<b>Third Year</b>	<b>Internal Assessment Marks</b>	<b>Term End Examination</b>	<b>Total Marks</b>	<b>Passing Marks</b>
1	Computer Science –III	30	70	100	40
2	English-III	30	70	100	40
3	Political Science-III	30	70	100	40
4	Public Administration-III	30	70	100	40
5	Education-III	30	70	100	40

# **BACHELOR OF ARTS –First year**

## **COMPUTER SCIENCE-I BAG 101**

### **UNIT - I**

**Basics of Computing:** Introduction & Characteristics of Computer, Generation of Computers, Classification Computers, Micro, Mini, Main Frame, Super, Components of Computer, Input Devices, Output Devices, Processing Devices, Memory Devices

**Number Systems:** Type of Number System ,Positional NS ,Non-Positional NS , Converting from one Number System to another , Binary to Decimal & Decimal to Binary , Octal to Decimal & Decimal to Octal , Hexa to Decimal & Decimal to Hexa , Binary to Octal , Binary to Hexa

### **UNIT - II**

**Processor:** Function and Structure, CPU, Main Components of CPU, Instruction Execution, MAR, MBR, PC, IR, ALUs, Central Processing Unit (CPU)

**Memory Organization:** Primary storage, Storage location & Address, Storage capacity, RAM ROM, PROM, EPROM, EEPROM, Cache Memory, and Virtual Memory, Secondary Storage, Sequential & Direct Access Devices, Magnetic Disk, Floppy Disk, Data Organization & Format, Access Time, Seek Time, Latency Time, Optical Memory, CD-ROM, WORM, Erasable Optical Disk

### **UNIT – III**

**Input and Output services:** Input concepts, Keyboard, Mouse, Trackballs, Joysticks, Scanner, Input devices, Output concepts. Output services ,Monitor ,Printer , Non-impact Printers, Ink jet, Liquid Ink-jet Printers, Laser ,Thermal Wax Printers , Color Laser Printers ,Impact Printers, Daisy wheel.

**Computer Software:** Difference between Hardware & Software, Applications, System Software, Generation of Languages, Machine, Assembly, High level, Fourth Generation Language, Translators, Compiler, Interpreter, Assembler

**Operating System:** Evolution of Operation System, Serial Processing, Batch Processing, Multiprogramming, Types of OS, Batch, Multi Programming, NOS, Dist. OS

#### **UNIT – IV**

**Computer Fundamental:** Introduction to DOS, History and Different parts of DOS, Computer File in DOS, Directory Structure of DOS, System Prompt, Default Drive, Changing Default Drive , File & Director, DOS keys and File name, Commands, Internal, External Command.

#### **UNIT – V**

**Security:** Security, Principles of cryptography, Diff. between privacy & security ,Security Status on PC, Physical Security, Software Security, Networking Security, Password Security

**Data Communication & Computer Network:** Data Transmission Modes, Simplex, Half, Full duplex. Transmission Media, Two Wire, Twisted Pair, Untwisted Pair Cable, Coaxial, Fiber Optics, N/W Concepts & Classification, LAN, WAN, MAN

**Virus:** History, Type Of virus, Category of Virus, Boot Infectors ,System Infectors, General , Executable Infectors, Prevention.

# **ENGLISH-I**

## **BAG 102**

### **UNIT 1**

#### **DETAILED PROSE: CONTEMPLATIONS-I**

1) A little bit of what you fancy-by Desmond Morris

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

2) Leave this chanting and singing and telling of beads- Rabindhranath tagore

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

3) The Portrait- Aldous Huxley

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

4) To Know When to Say "It's None of Your Business"- Mark Mc Cormack

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

### **UNIT –II**

#### **DETAILED PROSE: CONTEMPLATIONS-II, EXTENSIVE READER**

5) The Second Crucifixion- Larry Collins and Dominique Lapierre

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

6) I am a cat- Natsume Soseki

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

7) The Boy Comes Home- A.A. Milne

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

8) 8. Refund- Friz Kari

Essay- Annotations – Context-Meaning-Vocabulary-Grammar-Punctuation

### **EXTENSIVE READER**

1. Orpheus And Eurydice (Sir George William Cox)
2. The Penance Of Viswamitra (From Tales of India.)
3. It Is Quite True
4. Don Quixote And The Windmills (Adapted from the Spanish story of Cervantes)
5. The Blue Boy of the Pool(A Chinese Legend)

### **UNIT –III**

#### **TALES FROM SHAKESPEARE**

- 1 The Merchant of Venice
2. Macbeth
- 3 Twelfth Night
4. King Lear

### **UNIT –IV**

Identifying People and Things(Determiners, including Articles)

Making Connections(Conjunctions and other Devices)

Interjections

### **UNIT –V**

Letter Writing-Writing Paragraph-Telegrams-Note Making-Advertisement

# **PRINCIPLES OF POLITICAL SCIENCE BAG 103**

## **SYLLABUS**

### **Unit-1**

Nature – Meaning - Definition and scope of political science – Relationship with other social sciences – state – Elements – Distinguished from society, Association, Community, Government and Nation

### **Unit-2**

Theories of origin of state: Divine Right Theory – Patriarchal Theory – Matriarchal Theory–Force Theory – Social Contract Theory – Evolutionary Theory

### **Unit-3**

Sovereignty: Meaning & Definition – Characteristics of Sovereignty\_ Types of Sovereignty- Austin's Theory of Sovereignty, Pluralistic Theory of Sovereignty – Challenges to Sovereignty: Internal & External sources

### **Unit-4**

Law: Meaning of Law- Sources and kinds of Law. Liberty: Definition and Meaning of Liberty – Kinds of Liberty Safeguards of Liberty. Equality: Definition and Meaning – Kinds of Equality – Relationship between Liberty, Equality and Justice

### **Unit-5**

Democracy: Meaning and Definition – Types of Democracy. Rights: Meaning and Definition –Types of Rights – Moral, Legal, Political and Civil Rights- Fundamental Rights and Fundamental Duties – Political Obligations.

# **PRINCIPLES OF PUBLIC ADMINISTRATION BAG 104**

## **SYLLABUS**

### **Unit-1**

Meaning – Nature and Scope of Public Administration – Private and Public Administration – Public Administration and other Social Sciences – Public Administration: Arts or Science – New Public Administration

### **Unit-2**

Organization: Principles of organization – Staff, Line and Auxiliary Agencies – Departments – Public Corporations – The Bureau, Board and Commissions – Field Establishments – Independent Regulatory Commission – O and M

### **Unit-3**

Management – Meaning, Nature and Objective of Leadership – Qualities of Leadership – Development of Leadership – Types of Leadership – Policy formation: meaning – Its significance – Policy formation in India – Decision Making: Basis and Problems of Decision Making – How to make decision – Planning – Co-ordination – Communication – Supervision.

### **Unit-4**

Personnel Administration : Position Classification – Recruitment – Its type – UPSC – Training: Its types – Training in India – Promotion : Promotion Policies in India – Retirement – Discipline – Budget – Preparation of Budget – Budget Enactment – Execution – Auditing and Accounting.

### **Unit-5**

Administrative Responsibility – Controls over Public Administration – legislative, executive and judicial controls – Public Relations – Administrative Law – Administrative Adjudication.

# ENVIRONMENTAL SCIENCE

## BAG 105

### UNIT - 1

#### **Nature of Environment and Resources:**

Definition, scope and; importance, need for public awareness. Renewable resources and Non-renewable resources: **Forest resources:** Use and over- exploitation, deforestation, case studies. Timber extraction mining dams and their effects on forests and tribal people. **Water resources:** Use and over utilization of surface and ground water, floods, droughts, conflicts over water, dams' benefits and problems. **Mineral resources:** Use and exploitation, environmental effects of extracting and using mineral resources, case studies. **Food resources:** World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticide problem, water logging, salinity,. Case studies, **Energy resources:** Growing energy needs, renewable and non renewable energy sources, use of alternate energy sources, Case studies. **Land resources:** land degradation; man induced landslides, soil erosion and desertification. Role of an individual in conservation of natural resources, equitable use of resources for sustainable lifestyles

### UNIT- II

#### **Eco System**

Concept of an ecosystem, Structure and function of an ecosystem, Producers, consumers and decomposers, Energy flow in the ecosystem, Ecological succession, Food chains, food webs and ecological Pyramids, Introduction, types, characteristics features structure and function of the following ecosystem- Forest ecosystems, Grassland ecosystem, Desert ecosystem, Aquatic ecosystem



## **UNIT – III**

### **Biodiversity and its Conservation:**

Introduction – Definition: Genetic, species and ecosystem diversity. Biogeographically classification of India. Value of biodiversity: consumptive use, production use, social, ethical, aesthetic and option values. Biodiversity at global, national and local levels. India as a mega-diversity nation Hot –spots of biodiversity, Threats of biodiversity: habitat loses, poaching of wildlife, man – wildlife conflicts. Endangered and endemic species on India. Conservation of biodiversity:

## **UNIT – IV**

### **Environmental Pollution and Protection**

Definition, Causes, effects and control measures of Air pollution, Water pollution, Soil Pollution, Marine pollution, .Noise pollution, Thermal pollution, nuclear pollution. Solid waste Management: Causes, effects and control measures of urban and industrial water. Role of an individual in prevention of pollution, Pollution- case studies. Disaster management; floods, earthquake, cyclone and landslides. Population growth, variation among nations, Population explosion - family welfare programme, Environment and human health.

## **UNIT – V**

### **Social Issues of the Environment:**

Sustainable development, urban problems related to energy, Water conservation, rain water harvesting, watershed management, Resettlement and rehabilitation of people; problems and concerned, Environmental ethics: Issues and possible solutions. Climate change global warming, acid rain ozone layer depletion, nuclear accidents and holocaust Case studies. Wasteland reclamation. Consumerism and waste Products. Environment protection act. Issues involved in enforcement of environmental legislation. Public awareness.

# **BACHELOR OF ARTS -Second year**

## **COMPUTER SCIENCE –II BAG 201**

### **Unit 1**

#### **INTRODUCTION TO COMPUTERS, NUMBER SYSTEMS AND BOOLEAN ALGEBRA**

Evolution of Computers-Classification of Computers-Digital Computers-Generations of Computers-Model of Digital Computer-Functioning of a Digital Computer- Human VS Computer-Applications-Number System-Conversions- Character Codes-Concept and Requirement of Boolean algebra

### **Unit 2**

#### **SOFTWARE CONCEPTS, SOCIAL CONCERNS and APPLICATIONS OF COMPUTERS**

Types of Software-Assembler-Compilers-Loaders and Linkage Editors-Functions of an Operating System-Types -BIOS-Positive and Negative Impacts of Computer Technology-Viruses and their Types-Classification of Virus-Computer Crimes-Business Education-Science-Engineering

### **Unit3**

#### **INTRODUCTION TO MICROSOFT WORD 2000**

Introduction to Microsoft Word 2000-Standard Toolbar-Appling Wordwrap-File Menu-Edit Menu-View Menu-Insert Menu-Format Menu-Tools Menu-Table Menu-Macro-Editing of Word Document-Text Formatting-Paragraphs Formatting-Text Animation-Tables in Microsoft Word 2000

### **Unit 4**

#### **MICROSOFT EXCEL 2000**

Introduction to Microsoft Excel 2000-Edit Menu-View Menu-Insert Menu-Format Menu-Tools Menu-Data Menu-Excel Short Cut Keys-Working with Toolbar – Formulas-Insert Chart-Formatting-Data Management

### **Unit 5**

#### **MICROSOFT POWERPOINT 2000**

Introduction to PowerPoint 2000-Slide Sorter View-Displaying the Slides-Power Point Slide Creation-Formatting-Adding Graphics-Customizing

# **ENGLISH-II BAG 202**

## **UNIT I**

### **POETRY:**

- A) CLASSICAL AND ROMANTIC POETRY.
- B) TWENTIETH CENTURY BRITISH POETRY.

## **UNIT II**

**DRAMA**-Shakespeare

## **UNIT-III**

History Plays Of Shakespeare-British Drama-American Drama

## **UNIT IV**

### **FICTION**

- A) British Novel (19th and 20th centuries)
- B) American Novel (20th Century)
- C) Indian Novel

## **UNIT V**

### **LANGUAGE AND LINGUISTICS**

- A) English as a World Language
- B) American English

# **POLITICAL SCIENCE-II**

## **BAG –203**

### **Unit – I**

#### **Greek Political Thought**

Plato : Early life and works – The Republic – Concept of Justice – Education – Rule of Philosopher King – Plato's idea of communism

### **Unit – II**

#### **Medieval Political Thought**

Cicero : Sources and Influences – Main ideas of Cicero – Contribution to Political Thought – St. Augustine: Main ideas – Evaluation – Thomas Aquinas : His works – Classification of Laws – Contribution to Political Thought – Estimate.

### **Unit – III**

#### **Early Modern Political Thought**

Machiavelli: Early life – Influence on Machiavelli – Machiavelli as a Modern Political Thinker – Views on Human Nature – Morality – Religion – State – Contribution to Political Thought – Montesquieu : Early life – Methods – Main Ideas – Classifications of Government – Theory of Separation of Powers.

### **Unit – IV**

#### **Modern Political Thought – I**

Thomas Hobbes: Views on Human Nature and State of Nature – Social Contract Theory Sovereignty – Law Rights and Liberty. John Locke : Views on Human Nature – State of Nature – Natural Law – Social Contract – State and Sovereignty – Individualism – Classifications of Government. Rousseau : Views on State of Nature – Social Contract – General will – Sovereignty – His Contribution to Political Thought – Absolutism – Estimate.

### **Unit – V**

#### **Modern Political Thought – II**

Jeremy Bentham :His views on Utilitarianism – Parliament Reforms – Jail Reforms – J.S. Mill : His views on Liberalism – State – Representative Government – Mill as Individualist and Socialist. Karl Marx : Early life and Influences – Communist Manifesto – Dialectical Materialism -Historical Materialism – Class war – Surplus value – Dictatorship of the Proletariate –Communism – Contradictions with capitalism.

# **PUBLIC ADMINISTRATION-II**

## **BAG -204**

### **UNIT- I**

Political Economy- Meaning of Under Developed Economy- Causes for Under Development- Political Economy of India under British Rule – Nature and Basic Characteristics of Indian Economy After Independence.

### **UNIT-II**

Indian Economy – Idea of Market- Market Theory of Political Economy – Mixed Economy in a Welfare State – Self Reliance- Concept of Self Reliance – Progress Towards Self Reliance

### **UNIT- III**

Indian Agriculture Policy- Nature of Indian Agriculture – Land Reforms and Agricultural Holders- Marketing of Agricultural Products Food Problem and Food Policy in India- Green Revolution.

### **UNIT- IV**

Democratic Socialism in India- Economic Planning in India- Mixed Economy and planning under The New Economy Policy in India- parallel Economy in India

### **UNIT – V**

Current Five Year plans – 10<sup>th</sup> and 11<sup>th</sup> five year Plans – Political stability –Structural Reforms- Liberalization- Privatization – Globalization – It's Impact on India.

# **EDUCATION-II**

## **BAG 205**

### **UNIT – I**

#### **Philosophical Foundations of Education**

Concept, meaning and importance of philosophical foundations of education. Indian Philosophy

### **UNIT – II**

#### **Great Indian Philosophers**

Indian Philosophers: Vivekananda, Gandhi, Tagore, Radhakrishnan, J. Krishnamoorthy and their contributions to the modern system of education.

### **UNIT – III**

#### **Western philosophical thought**

Western philosophies: Idealism, Realism, Existentialism, Socialism, Democracy, Eclecticism and their applications to Teaching - Learning Process.

### **UNIT – IV**

#### **Social Change and Education.**

Social Change: Concept, meaning and importance - Role of education in social change - education and modernization. - Education as a social system - Social Institutions and Education - Education and Social Mobility.

### **UNIT – V**

#### **Role of Culture in Social Change**

Culture: Meaning, nature and importance - Role of education in maintaining cultural heritage and cultural change; Role of education in National, International understanding and Peace - The peer group and youth culture

## **BACHELOR OF ARTS -Third year**

### **COMPUTER SCIENCE –III BAG 301**

#### **Unit -1**

##### **Introduction to Database System and Database Models**

Database System: Introduction - Objectives - Traditional file oriented approach - Motivation for database approach - Database Basics - Three views of data - The three level architecture of dbms - Database management system facilities - Elements of a database management system - Advantages and disadvantages of dbms - Database Models: Introduction - Objectives - File management system - Entity-relationship (e-r) diagram - The hierarchical model - The network model - The relational model - Advantages and disadvantages of relational approach - An example of a relational model

#### **Unit- 2**

##### **File Organisation for dbms and Representing Data Elements**

File Organisation: Introduction - Objectives - File organization -Sequential file organisation - B-trees Direct file organization - Need for the multiple access path  
Representing Data Elements: Data elements and fields - Representing relational database elements - Records -Representing block and record addresses - Client-server systems - Logical and structured addresses - Record modifications - Index structures - Indexes on sequential files - Secondary indexes - B-trees - Hash tables

### **Unit- 3**

#### **Relational Model and Normalization**

Relational Model: Introduction - Objectives - Concepts of a relational model - Formal definition of a relation - The codd commandments

Normalization: Functional dependency - Normalization

### **Unit-4**

#### **Structured Query Language, Relational Algebra, Management Considerations**

Structured Query Language: Introduction of sql - Ddl statements - Dml statements - View definitions - Constraints and triggers - Keys and foreign keys - Constraints on attributes and tuples - Modification of constraints - Cursors - Dynamic sql

Relational Algebra: Basics of relational algebra - Set operations on relations - Extended operators of relational algebra - Constraints on relations

Management Considerations: Introduction - Objectives - Organisational resistance to dbms tools - Conversion from an old system to a new system - Evaluation of a dbms - Administration of a database management system

### **Unit -5**

#### **Concurrency Control and Transaction Management**

Concurrency Control: Serial and serializability schedules - Conflict-serializability - Enforcing serializability by locks - Locking systems with several lock modes - Architecture for a locking scheduler - Managing hierarchies of database elements - Concurrency control by timestamps - Concurrency control by validation - Summary

Transaction Management: Introduction of transaction management - Serializability and recoverability - View serializability - Resolving deadlocks - Distributed databases - Distributed commit - Distributed locking - Summary



## **ENGLISH-III BAG 302**

### **FOR DETAILED STUDY**

#### **UNIT-I**

1. Of Studies - Bacon
2. The Spectator Club - Steele
3. Sir Roger and Will Wimble - Addison

#### **UNIT-II**

4. A Dissertation Upon a Roast Pig - Lamb
5. Old China - Lamb

#### **UNIT-III**

6. Dream Children - Lamb
7. On Familiar Style - William Hazlitt

#### **UNIT-IV**

8. On Running After One's hat - G.K. Chesterton.
9. The Unexpected - Robert Lynd
10. The Man in Black - Oliver Goldsmith

### **NON-DETAILED STUDY**

#### **UNIT-V**

1. Of Truth - Francis Bacon
2. Beau Tibbs - Oliver Goldsmith
3. Oliver Goldsmith - Macaulay
4. Walking Tour - Stevenson
5. On Chesses - Hilaire Belloc
6. Witches And What Not - E.G.V Knox
7. On Getting Upon Cold Morning - Leigh Hunt
8. Sir Roger De Coverley's Portrait Gallery- Steele

# **POLITICAL SCIENCE-III**

## **BAG –303**

### **UNIT-I**

International Politics- Nature of Sovereign State System – Approaches to the Study of International Politics –Theories of International Relations- The Realistic Theory- Idealistic Theory – System Theory –Decision Making Theory – Equilibrium Theory.

### **UNIT-II**

National Power- National Interest- Ideology- Balance of Power –Diplomacy- War as an Instrument of National Power and Economical Power.

### **UNIT –III**

Cold War- Collective Security- Disarmament- Regionalism Regional Organisations(OAU,AL,SAARC,ASEAN,NATO,EU,OPEC,EC)

### **UNIT- IV**

International Law - Nature of International Organisation – Development of International Organisation –League of Nations-UNO and Its Specialised Agencies.

### **UNIT –V**

Theory and Practice of Non-Aligned Movement-Basic Principles of India's foreign Policy- India's Relationship with USA, Russia, Britain,China and South Asian Countries.

## **PUBLIC ADMINISTRATION-III**

### **BAG -304**

#### **UNIT – I**

Nature and Scope of Environmental Economics Basic Theories of Environmental Economics Material Balance Model – Maximum Social Welfare Pareto Efficiency – Ecology and Ecosystem.

#### **UNIT – II**

Forest and Environmental Quality – Environmental Quality as a public good – Tragedy of commons.

Sources of Energy and their classification Renewable and Non-renewable conventional and non-conventional Direct and Indirect - Energy Scenario in India

Population and Urbanizations – Its impact on Environment – Problem of Pollution – air – water – industrial, nuclear, Thermal and Noise Pollution.

Cost – Benefit analysis of controlling population – Environmental cost – and Economic Growth – Limit to Growth

#### **UNIT-III**

Fiscal Techniques – Effluent Residual Charges – Subsidies – Subsidies and Effluent Changes compared

Environmental Education – Environmental Planning and Management

#### **UNIT-IV**

Environmental Laws.-Nature of Environmental Problem in India's Environmental Management – Global Warming – Green House Effect – Acid Rain.

#### **UNIT –V**

International Environmental Policy – Transfrontier Pollution – International agreement – Stock home – Rio declaration.

Human Rights and the Environment – Disaster Management – Conservation of Wild life – NGO's and Environment.

## **EDUCATION-III**

### **BAG 305**

#### **Unit I.**

Guidance and counselling and areas of guidance and counselling.

#### **Unit II.**

Guidance and counselling - personal and counseling process.

#### **Unit III.**

Role of psychological test in guidance and counselling and organizing guidance and counselling at schools and colleges.

#### **Unit IV.**

Group counselling, career counselling and career interventions.

#### **Unit V.**

Marital, family and sex counselling, and cultural Diversity and cross-cultural counselling.





