

NATIONAL UNIVERSITY



First Year Syllabus Department of Soil Science

Four Year B.Sc. Honours Course
Effective from the session : 2013–2014

National University
Subject: Soil Science
Syllabus for Four Year B.Sc. Honours Course
Effective from the session: 2013-2014

Year wise Papers and marks distribution

FIRST YEAR

Paper Code	Paper Title	Marks	Credits
213301	Introductory Soils-I	100	4
213303	Introductory Soils-II	100	4
213304	Soil Science Practical	100	4
212807	Chemistry-I	100	4
212808	Chemistry-I Practical	50	2
213007	Botany-I	100	4
213008	Botany-I Practical	50	2
211501	History of the Emergence of Independent Bangladesh	100	4
	Total=	700	28

Detailed Syllabus

Paper Code	213301	Marks: 100	Credits: 4	Class Hours: 60
Paper Title:	Introductory soils-I			

Soil Science as an independent discipline; historical development of Soil Science; Branches of Soil Science and their relationship with other branches of science; the scope of the application of the knowledge of soil science.

Concepts of soil- soil as a natural body, the earth and the soil, the formation and structure of the earth, the earth and its biotic and abiotic environment, environmental segments. The ecosystem-soil as a component of the ecosystem.

Soil composition – Solid, liquid and gaseous proportions; chemical composition of soil solids. Soil forming rocks and minerals; organic fraction; characteristics of the liquid and gases.

Fundamental processes of soil formation – Weathering of rocks and minerals, silicate structure, synthesis of silicate clays. Factors affecting soil formation. Development of soil horizons and soil profile, Master horizons. Ideal soil profile.

Soil as a dispersed three-phase system. Mass and volume relations of soil constituents. Soil texture - classes & importances, Practical size analysis. Soil structure classification, genesis & importance. Soil density & Soil temperature.

Books Recommended:

1. The Nature and Properties of Soil : N.C. Brady & Weil 13th ed.
2. Russell's Soil Condition & Plant Growth : Alan Wild - 2011
3. Soils in our environment : R.W Miller and R.L Donahue – 2011 8th ed.
4. Soils Ecology : A. Wild
5. Introductory Soil Science : Dilip Kumar Das – 3rd ed.(2011)

Paper Code	213303	Marks: 100	Credits: 4	Class Hours: 60
Paper Title:	Introductory Soils-II			

The Soil biota: types of biota, plant roots, interaction between plant roots and soil biota; occurrence, population, structure and functions of Bacteria, Actinomycetes, Fungi and Algae. Nutritional division of soil microflora; meso-and macro-fauna: Oligochaetes, Nematodes, Arthropods, Mollusks, Viruses, Protozoa and Slime moulds.

The soil as source of energy and nutrient to soil biota- soil minerals as a source of nutrients; soil organic matter and living biomass as source of nutrients. The soil atmosphere as source of carbon and other nutrients.

Concept of pH and Soil solutions, Essential plant nutrient elements- criteria and classification, elementary idea about the function and deficiency symptoms of nutrient elements. Role of N, P, K and S in plant nutrition.

Concept of soil fertility and productivity. Basic idea on the fertility status of Bangladesh soils. The need of soil

fertility management. Basic idea about the soil fertility management techniques. Fertilizers- organic, inorganic and biofertilizers.

Books Recommended:

1. Principles of Soil Chemistry : Kim H. Tan.
2. Soil Chemistry : Bohn. McNealed, A.O.'Connor, John Willy and New York.
3. Chemistry of the Soil : F.E Bear, Oxford IBH Publishing Co Pvt. New Delhi.
4. Soil Chemistry and its application : Malcolm Cresser, Ken Kilham & Tony Edwards. Cambridge University Press.
5. Fertilizer Recommendation Guide-2012: BARC

Paper Code	213304	Marks: 100	Credits: 4	Class Hours: 60
Paper Title:	Soil Science Practical			

1. Precautions to be taken in the laboratory.
2. Collection, preparation and storage of soil sample.
3. Determination of soil moisture by gravimetric method.
4. Determination of soil bulk density and particle density.
5. Preparation of standard solution of $K_2Cr_2O_7$, oxalic acid, NaOH and $FeSO_4$
6. Determination of organic carbon present in soil by wet oxidation method.
7. Determination of soil PH and free carbonates.

Books Recommended:

1. A Handbook on Analysis of Soil, Plant & Water – S. M. Imamul Huq and Md. Didar-ul-Alam

Paper Code	212807	Marks: 100	Credits: 4	Class Hours: 60
Paper Title:	Chemistry-I			

1. **Measurements and the Scientific Method:** Measurements, units, SI units, reliability of measurements – precision and accuracy, rounding off, significant figures, significant figures in calculation, mean and median, errors, sources of errors.
2. **Structure of atom:** Atom, isotops, atomic masses, mass spectroscopy, atomic nucleus, nuclear binding energy, nuclear reactions – fission and fusion reactions, Bohr atom model, spectrum of atomic hydrogen, dual nature of electron, Heisenberg uncertainty principle, quantum numbers, atomic orbitals, Aufbau principle, pauli exclusion principle, Hund’s rule of maximum multiplicity, electronic configuration of atoms.
3. **Periodic Table:** Periodic law, periodic table, electronic configurations from the periodic table, periodic properties of the elements such as ionization energies, electron affinity, electro negativity, atomic/ionic radius along a period and down a group, diagonal relationship

- Chemical Bonds:** Chemical bond, types of chemical bonds – ionic, covalent coordination, metallic, hydrogen, polar and non-polar covalent bonds, Lewis dot structure, shapes of molecules, VSEPR theory, valence bond theory, hybridization, σ - and δ -bonding in compounds, molecular orbital theory.
- Oxidation and reduction:** redox reactions, writing and balancing redox reactions,
- States of Matter:** Comparison between solids, liquids and gases, changes of state, m.p. and b.p, phase transition, phase diagram of water.
- Gaseous and Their Properties:** The gas laws, the perfect gas equation, the kinetic theory of gases, Van der Waals equations, real gases, Graham's laws of diffusion and effusion.
- Solutions:** Solubility and intermolecular forces, solubility product, types of concentration units, colligative properties, of solutions, Henry's law, Nernst distribution law.
- Acids and Bases:** Various concepts on acids and bases, conjugate acids and bases, neutralization reactions acid-base strength, pH, acid-base titrations, acid-base indicators, acid-base properties of salts, the common ion effect, buffer solutions, hard and soft acids and bases.
- Chemical Equilibrium:** Reversible reactions and the equilibrium state, the equilibrium law, reaction quotients and equilibrium constants, calculations using K_c , K_p .

Homogeneous and heterogeneous equilibria, the principle of Le Chatelier and Brown.
- Hydrocarbons:** Hydrocarbons, saturated and unsaturated hydrocarbons, alkanes, alkenes, and alkynes, nomenclature of organic compounds- the IUPAC system natural gas, petroleum, petrochemicals.
- Study of different classes of organic Compounds:** Alcohols, aldehydes, ketones, carboxylic acids, esters, amines and amides.

Books Recommended:

- General Chemistry, D. D. Ebbing, Houghton Mifflin Co.
- Chemistry – The Molecular Nature of Matter and Change, M. Silberberg. WCB /Mc Graw- Hill.
- Introduction to Modern Inorganic Chemistry, S.Z. Haider, Friends' International.
- Principles of physical chemistry, M. M. Huque and M. A Nawab, students' publications.
- Essentials of Physical chemistry, B.S Bahl, G.D Tuli and A Bahl, S. Chand & Co.Ltd.
- Advanced Organic Chemistry, B.S. Bahl and A Bahl, S. Chand & Co. Ltd.
- A Level chemistry by C.W. Ramsden
- Organic Chemistry: T Morrison and R.N Boyed,
- Fundamental of Organic Chemistry by W Solomons

Paper Code	212808	Marks: 50	Credits: 2	Class Hours:30
Paper Title:	Chemistry-I Practical			

- Preparation of $\text{FeSO}_4 \cdot 7\text{H}_2\text{O}$, Mohr's salt and potash alum.
- Separation and identification of four radicals from a mixture of anions and cations The cations are Pb^{2+} , Cu^{2+} , Cd^{2+} , Al^{3+} , Fe^{2+} , Fe^{3+} , Co^{2+} , Ni^{2+} , Zn^{2+} , Ca^{2+} , Ba^{2+} , Na^+ , K^+ and NH_4^+ . the anions are NO_3^- , CO_3^{2-} , S^{2-} , SO_4^{2-} , Cl^- , Br^- and I^-
- Standardization of NaOH solution using standard oxalic acid solution,
- Determination of Fe^{2+} using standard permanganate solution

5. Iodometric determination of copper(II) using standard Na_2SO_3 solution.
6. Gravimetric determination of nickel as $\text{Ni}(\text{HDMG})_2$ complex
7. Determination of the enthalpy change for the decomposition sodium dicarbonate into sodium carbonate.
8. Determination of the pH - neutralization curves of a strong acid by a strong base.
9. Investigation of the conductance behaviour of electrolytic solution and applications (acetic acid)
10. Determination of the presence of nitrogen, halogen and sulphur in organic compounds.
11. Identification of the functional groups (unsaturation, alcohol, phenol, carbonyl, aldehyde, ketone, carboxylic acid, aromatic amine, amide and nitro- groups) in organic compound.

Books Recommended:

1. A Text Book of Quantitative Inorganic Analysis, A.I. Vogel, 3rd/4th edition, ELBS and Longman Green & Co. Ltd.
2. A Text Book of Quantitative Inorganic Analysis, A.I. Vogel 3rd/4th edition, ELBS and Longman Green & Co. Ltd.
3. Practical physical chemistry, A Faraday.

Paper Code	213007	Marks: 100	Credits: 4	Class Hours:60
Paper Title:	Botany-I			

1. **Introduction:** Origin and evolution of life; differences between plants and animals; modern concepts of classification of living organisms.
2. **Microbiology:**
 - a) Introduction to Viroids, Prions, Rickettsia and Mycoplasmas.
 - b) Virus: Physical and chemical nature of phage, plant and animal viruses, multiplication of HIV virus and economic importance.
 - c) Bacteria: Types, fine structure, reproduction and importance.
 - d) Fungi: Habitat, characteristics, classification up to class (Alexopoulos), reproduction, importance, life history of *Saccharomyces*.
 - e) Cyanobacteria: Habitat, characteristics, structure, importance of Cyanobacteria .
 - f) Algae: Habitat, characteristics, classification up to class (Fritsch), reproduction, importance; life history of *Oeodogonium*.
 - g) Phytoplankton: Habitat, characteristics, classification and importance.
3. Lichen: Habitat, characteristics, classification and importance.
4. Limnology: Definition, scope, importance and classification of lakes.
5. Bryophyta: Habitat, characteristics, classification up to classes and reproduction; life history of *Riccia* and *Anthoceros*.
6. Pteridophyta: Habitat, characteristics, classification up to classes, importance; life history of *Selaginella* and *Christella*.
7. Gymnosperms: Habitat, characteristics and importance; life history of *Cycas* and *Gnetum*.
8. Angiosperms: Habitat, characteristics, ICBN, classification systems of plant kingdom. (Artificial, natural

& phylogenetic). Identifying characters and economic importance of the following families: (a) Fabaceae, (b) Solanaceae and (c) Malvaceae and (d) Poaceae.

9. Plant Pathology: Concept of diseases in plants, causes, diagnosis, classification and importance of plant diseases, symptomatology and control measures; forecasting of plant diseases.
Causal organisms, symptoms and control measures of brown spot of rice, stem rot of jute, citrus canker and tungro disease of rice.
10. Economic Botany: Local and scientific names, parts used and importance of at least 8 prominent plants of each of the following groups: (a) Food, (b) medicine, (c) timber, (d) fibre, (e) oil and (f) vegetables. Cultivation and processing of tea and rubber.

Books Recommended:

1. Agrios, G.N. 1997 : Plant Pathology (4th ed.). Academic Press, London.
2. Bold, H.C. and M.J. Wynne. 1978 : Introduction to the Algae, Prentice Hall, India
3. Hawker, Lilian, E. 1967 : Fungi, Hutchinson Univ. Library, Cambridge Univ. Press, London.
4. Lawrence, G.H.M. 1951 : Taxonomy of Vascular Plants. The Macmillan Co. New York.
5. Pelczer, M.J., E.C.S. Chan : Microbiology: Concepts and Applications. McGraw Hill Book Co. and N.R. Krieg. 1993 Inc. New York.
6. Vashista, P.C. 1993 : Botany for Degree Students: Pteridophyta. S.C. Chand & Co. Ltd. Ramnagar, New Delhi.
7. Mukherji, H. and Ganguly, 2000: Plant Groups, Centrl Book Agency, Calcutta.
8. Hill, F.A. 1972. : Economic Botany, Tata McGraw-Hill Publishin Company, India.
9. ivq, k"vgj Kzgvj, cvj, wbkx_ Kzgvj : Acy@úK Dw™ ¢` weÁvb (1g I 2q LÛ), evsjv GKv#Wgx, cvkv, †gv—dv XvKv|
10. Lvb, AvRgvR` Avjx Ges : mœvZK Dw™ ¢` weÁvb 1g, 2q I 3q LÛ| ZwiKzj Bmjvg : wjg#bvjRx, XvKv wek|we`"vjq cÖKvkbv, XvKv|
11. L>` Kvi gwbi"¾vqvb, 1994 : Dw™ ¢` weÁvb, nvmvb eyK nvDR, evsjv evRvi, XvKv|
12. evmvi, Gg. G., Gg.G. nvmvb Ges g. iwdKzj Bmjvg. 2004 : Dw™ ¢` †kªYx web"vm ZË; (3q ms<iY), nvmvb eyK nvDm,
13. nvmvb, Gg. G. Ges Gg. †K. Avjg. 1997 XvKv|
14. LvZzb, iv#eqv, 2002 : Dw™ ¢` †kªYxweb"vm, BD†iKv eyK G#RwÝ, ivRkvnX

Paper Code	213008	Marks: 50	Credits: 2	Class Hours:30
Paper Title:	Botany-I Practical			

1. Detail study including dissection (where necessary), mounting, drawing, description and identification with classification of the following genera: 10
Cyanobacteria : *Nostoc*, *anabaena*

Algae : *Saccnaromyces and Accoboious*

Bryophyte : *Riccia and Marchantia*

Pteridophyte : *Selaginella, Christella*

Gymnosperms : *Cycas*

Angiosperm : Poaceae and Fabaceae

2. Identification of the following genera with reasons: 06
- Algae *Volvox, Polysiphonea and Fucas.*
- Fungi *Rhizopus, A garicus, Puccinia and Penicillium.*
- Lichen Crustose, Foliose and Fructose.
- Bryophyte *Anthoceros, Semibarbula.*
- Pteridophyte *Selaginella, Marsilea, Azolla and Pteris*
- Gymnosperms *Cycas*
- Angiosperms Male and female cones of *Cycas*,
- Scientific names of common plants around the institution.
3. Find out algal specimens from local fresh water sample; draw and describe.....05
4. Study of the symptoms and causal organisms of Brown spot of rice and stem rot of Jute.05
5. Detailed taxonomic study of the families as included in the theory syllabus.08
6. Study of plant and plant parts, and economic uses of angiosperms included in the syllabus.06
7. Preparation of herbarium specimens of local plants and submission during examination.05
8. Laboratory Note book. 05

Books Recommended:

1. Agrios, G.N 1997 :Plant Pathology (4th ed.). Academic Press, London.
2. Bold, H.C. and M.J.Wynne. 1978 :Introduction to the Algae, Prentice Hall, India
3. Devlin, M.R. and H.F. Witham.1986 :Plant Physiology (4th ed.). CBS Publishers and Distributors, New Delhi.
4. Esau,K.1953 :Plant Anatomy. John Wiley & Sons, Inc., New York.
5. Goodwin, T.W. and E.I. Mereer. :Introduction to Plant Biochemistry (2nd ed.). Pergamon Press.
6. Hawker, Lillin,E. 1967 :Fungi, Hutchinson Univ. Library, Cambridge Univ. Press, London.
7. Kumar, H.D. 1995 :General Ecology, Vikash Pub. House, India.

8. Lawrence, G.H.M. 1995 :Taxonomy of Vascular Plants. The Macmillan Co. New York.
9. Pelczar, M.J., E.C.S. Chan and N.R. Krieg.1993 :Microbiology: Concepts and Applications. McGraw Hill Book Co. Inc. New York.
10. Vashista, P.C. 1993 : Botany for Degree Students: Pteridophyta. S.C. Chand & Co. Ltd. Ramnagar, New Delhi.
11. cvkv, †gv̄—dv Kvgvj : ēenvwiK Dw™ †`weÁvb, evsjv GKv†Wgx, XvKv|
ivq, k̄vgj Kzgvj, 1986
12. AvLZvi“¾vvgvb, g. : eskMwZ we`v, nvmvb eyK nvDR, XvKv|
13. AvLZvi“¾vvgvb, g. 2000 : eeZ©b ev`, nvmvb eyK nvDR, XvKv|
14. Bmjvg, G. Gm. 1984 : eskMwZ we`vi g~j K_v, evsjv
GKv†Wgx, XvKv|
15. Kg©Kvi, h`yvj. 2000 : Dw™ †` kixi weÁvb, nvmvb eyK
nvDR, XvKv|
16. Lvb, AvgRv` Avjx Ges : mævZK Dw™ †` weÁvb 1g, 2q | 3q LÚ|
ZwiKzj Bmjvg
17. L> Kvi gwbi“¾vvgvb, 1994 : wjg†bvjRx, XvKv wek|we`vjg
cÖKvkbv, XvKv|
18. Rvgvb, Gg. G. 1975 : †Kvlwe`v, evsjv GKv†Wgx, XvKv|
19. evmvi, Gg. G., Gg.G. : Dw™ †` weÁvb, nvmvb eyK nvDR, evsjv evRvi, XvKv|
nvmvb Ges
- g. iwdKzj Bmjvg. 2004
20. nvmvb, Gg. G. 1996 : evsjv†`†ki †flR Dw™ †`, Avkivwdqv eB Ni, evsjv
evRvi, XvKv|
21. nvmvb, Gg. G. Ges

Paper Code	211501	Marks: 100	Credits: 4	Class Hours: 60
Paper Title:	History of the Emergence of Independent Bangladesh			

^vaxb evsjv†`†ki Afy`†qi BwZnvm

f~wgKv: ^vaxb evsjv†`†ki Afy`†qi BwZnvm-cwiwa | cwiwPwZ

1| †k I Rb†Mvwôï cwiPq

K) f~ cÖK...wZi ^ewkó" | cÖfve

L) b,,ZvwË;K MVb

M) fvlv

N) ms̄<...wZi mgš^qevw`Zv | ag©xq mnbkxjZv

O) Awfbœ evsjvi cwi†cÖw††Z ZrKvjxb c~e©e½ | eZ©gvb evsjv†`†ki
^Kxq mËv

2| ALÚ ^vaxb evsjv ivóª MV†bi cÖqvm I Dcgnv†`†ki wefw³, 1947

K) Jcwb†ewkK kvmb Avg†j mvæcÖ`vwqKZvi D™ †e | we`—vi

L) jv†nvi cÖ`—ve, 1940

M) ALÚ ^vaxb evsjv ivóª MV†bi D†`vM, 1947 | cwiYwZ

N) cvwK`—vb m,,wó, 1947

- 3| **cvwK⁻—vb: ivó^axq KvVv†gv I ^elg^{''}**
 K) †K>`^axq I cÖv†`wkK KvVv†gv
 L) mvgwiK I †emvgwiK AvgjvZ†šži cÖfve
 M) A_©%bwZK, mvgvwRK I mvs⁻<...wZK ^elg^{''}
- 4| **fvlv Av†>`vjb I evOvwji AvZ†cwiPq cÖwZôv**
 K) gymwjg jx†Mi kvmb I MYZvwšžK ivRbxwZi msMÖvg
 L) Avlqvgx jx†Mi cÖwZôv, 1949
 M) fvlv Av†>`vjb: cUf~wg I NUbv cÖevn
 N) nK-fvmvbx-†mvnivlqv`©xi hy³d«>U, 1954 mv†ji wbe©vPb I cwiYwZ
- 5| **mvgwiK kvmb: AvBqye Lvbi I Bqvwnqv Lv†bi kvmbvgj (1958-71)**
 K) mvgwiK kvm†bi msAv I ^ewkó^{''}
 L) AvBqye Lv†bi †lgZv `Lj I kvm†bi ^ewkó^{''} (ivR%bwZK wbcxob, †gŠwjK MYZšž, a†g©i
 ivR%bwZK e^{''}envi)
 M) AvBqye Lv†bi cZb I Bqvwnqv Lv†bi kvmb, GK BDwbU wejywßKiY, mve©Rxb †fvUvwaKvi, GjGdl (Legal Framework Order)
- 6| **RvZxqZvev†`i weKvk I ^vwaKvi Av†>`vjb**
 K) mvs⁻<...wZK AvMÖvm†bi wei^{''}†x cÖwZ†iva I evOvwj ms⁻<...wZi D^{3/4}xeb
 L) †kL gywReyi ingv†bi 6-`dv Av†>`vjb
 M) 6-`dv Av†>`v†bi cÖwZwμqv, „i“Zi I Zvrch©
 N) AvMiZjv gvgjv, 1968
- 7| **1969-Gi MYAfy^{''}lvb I 11-`dv Av†>`vjb**
 K) cUf~wg
 L) Av†>`v†bi Kg©m~Px, „i“Zi I cwiYwZ
- 8| **1970 Gi wbe©vPb, Amn†hvM Av†>`vjb I e^{1/2}eÜzi ^vaxbZv †NvIYv**
 K) wbe©vP†bi djvdj Ges Zv †g†b wb†Z †K†>`^{ai} A⁻^xK...wZ
 L) Amn†hvM Av†>`vjb, e^{1/2}eÜzi 7B gv†P©i fvIY, Acv†ikb mvP©jvBU
 M) e^{1/2}eÜzi ^vaxbZv †NvIYv I †MÖdZvi
- 9| **gyw³hyx 1971**
 K) MYnZ^{''}v, bvix wbh©vZb, kiYv_©x
 L) evsjv†`k miKvi MVb I ^vaxbZvi †NvIYvcĬ
 M) ^Z:ù,Z© cÖv_wgK cÖwZ†iva I msMwVZ cÖwZ†iva (gyw³†dŠR, gyw³evwnbx, †Mwijv I m†šyL hyx)
 N) gyw³hy†x cÖPvi gva^{''}g (^vaxb evsjv †eZvi †K>`^a, we†`kx cÖPvi gva^{''}g I RbgZ MVb)
 O) QvĬ, bvix I mvaviY gvby†li Ae`vb (MYhyx)
 P) gyw³hy†x e„nrkw³ mg~†ni f~wgKv
 Q) `Lj`vi evwnbx, kvwš—KwgvU, Avje`i, Avjkgm, ivRvKvi evwnbx, ivR%bwZK `j I †`kxq
 Ab^{''}vb^{''} mn†hvMx†i ^vaxbZvwe†ivax Kg©KvŪ I eyw×Rex nZ^{''}v

- R) cvwK`ívþb ew>` Ae`'vq e½eÜzi wePvi I wek;cÖwZwµqv
- S) cÖevmx evOvwj I weþk|i wewfbœ †`þki bvMwiK mgvþRi f~wgKv
- T) gyw³hyþx fviþZi Ae`vb
- U) †hŠ_ evwnbx MVb I weRq
- V) `^vaxbZv msMÖvþg e½eÜzi †bZ...Zi

10| e½eÜz †kL gywReyi ingvþbi kvmbKvj, 1972-1975

- K) `^þ`k cÖZ`veZ©b
- L) msweavb cÖYqb
- M) hyx weaÿ`— †`k cybM©Vb
- N) mcwievþi e½eÜz nZ`v I Av`wk©K cUcwieZ©b

History of the Emergence of Independent Bangladesh

Introduction: Scope and description of the emergence of Independent Bangladesh. Writing on this topic.

1. Description of the country and its people.

- a. Geographical features and their influence.
- b. Ethnic composition.
- c. Language.
- d. Cultural syncretism and religious tolerance.
- e. Distinctive identity of Bangladesh in the context of undivided Bangladesh.

2. Proposal for undivided sovereign Bengal and the partition of the Sub Continent, 1947.

- a. Rise of communalism under the colonial rule, Lahore Resolution 1940.
- b. The proposal of Suhrawardi and Sarat Bose for undivided Bengal : consequences
- c. The creation of Pakistan 1947 .

3. Pakistan: Structure of the state and disparity.

- a. Central and provincial structure.
- b. Influence of Military and Civil bureaucracy.
- C. Economic , social and cultural disparity

4. Language Movement and quest for Bengali identity

- a. Misrule by Muslim League and Struggle for democratic politics .
- b. The Language Movement: context and phases .

c. United front of Haque – Vasani – Suhrawardi: election of 1954, consequences.

5. Military rule: the regimes of Ayub Khan and Yahia Khan (1958-1971)

- a. Definition of military rules and its characteristics.
- b. Ayub Khan's rise to power and characteristics of his rule (Political repression, Basic democracy, Islamisation)
- c. Fall of Ayub Khan and Yahia Khan's rule (Abolition of one unit, universal suffrage, the Legal Framework Order)

6. Rise of nationalism and the Movement for self determination .

- a. Resistance against cultural aggression and resurgence of Bengali culture.
- b. Sheikh Mujibur Rahman and the six point movement
- c. Reactions : Importance and significance
- d . The Agortola Case 1968.

7. The mass- upsurge of 1969 and 11 point movement: background, programme and significance.

8. Election of 1970 and the Declaration of Independence by Bangobondhu

- a. Election result and centres refusal to comply
- b. The non co-operation movement, the 7th March , Address , Operation Searchlight
- c. Declaration of Independence by Bangobondhu and his arrest

9. The war of Liberation 1971

- a. Genocide, repression of women, refugees
- b. Formation of Bangladesh government and proclamation of Independence
- c. The spontaneous early resistance and subsequent organized resistance (Mukti Fouz, Mukti Bahini, guerillas and the frontal warfare)
- d. Publicity Campaign in the war of Liberation (Shadhin Bangla Betar Kendra, the Campaigns abroad and formation of public opinion)
- e. Contribution of students, women and the masses (Peoples war)
- f. The role of super powers and the Muslim states in the Liberation war.
- g. The Anti-liberation activities of the occupation army, the Peace Committee, Al-Badar, Al- Shams, Rajakars, pro Pakistan political parties and Pakistani Collaborators , killing of the intellectuals.

- h. Trial of Bangabondhu and reaction of the World Community.
- i. The contribution of India in the Liberation War
- j. Formation of joint command and the Victory
- k. The overall contribution of Bangabondhu in the Independence struggle.

10. The Bangabondhu Regime 1972-1975

- a. Homecoming
- b. Making of the constitution
- c. Reconstruction of the war ravaged country
- d. The murder of Bangabondhu and his family and the ideological turn-around.

mnvqK MÖš'

1. bxnvi iÄb ivq, *evOvjxi BwZnvm*, †` Ö R cvewjwks, KjKvZv 1402 mvj|
2. mvjvn& Dwİb Avn†g` I Ab`vb` (mæúvw`Z), *evsjv†`†ki gyw³ msMÖv†gi BwZnvm 1947-1971*, AvMvgx cÖKvkxb, XvKv 2002|
3. wmivRyj Bmjvg (mæúvw`Z), *evsjv†`†ki BwZnvm 1704-1971*, 3 LÛ, GwkqvwUK †mvmvBwU Ae evsjv†`k, XvKv 1992|
4. W. nvi`b-Ai-iwk`, *evsjv†`k: ivRbxwZ, miKvi I kvmbZvwš¿K DbæqB 1757-2000*, wbD GR cvewj†KkÝ, XvKv 2001|
5. W. nvi`b-Ai-iwk`, *evOvwji ivó²wPš—v I ^vaxb evsjv†`†ki Af~`q*, AvMvgx cÖKvkxb, XvKv 2003|
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