

BHAGWANT UNIVERSITY
Sikar Road, Ajmer
Rajasthan



Syllabus

Institute of Humanities & social Sciences
Bachelor of Arts (BA)
(IIIrd Year)

BA III Year SYLLABUS

CODE No.		SUBJECT	HOURS PER WEEK				DISTRIBUTION OF MAXIMUM MARKS					
			L	T	P	TOTAL	UNIVERSITY EXAM			PRACTICAL EXAM		
							Internal	External	Total	Internal	External	Total
OPTIONAL SUBJECTS												
03ABA101.1	PAPER-I	प्रथम पत्र: आधुनिक काव्य	4	-	-	4	30	70	100			
03ABA101.2	PAPER-II	द्वितीय पत्र: कथा साहित्य (उपन्यास एवं कहानी)	4	-	-	4	30	70	100			
03ABA102.1	PAPER-I	ENGLISH POETRY AND DRAMA	4	-	-	4	30	70	100			
03ABA102.2	PAPER-II	PROSE AND FICTION	4	-	-	4	30	70	100			
03ABA103.1	PAPER-I	MODERN INDIAN HISTORY (1740-1956 A.D.)	4	-	-	4	30	70	100			
03ABA103.2	PAPER-II	MODERN WORLD (15TH TO 20TH CENTURY).	4	-	-	4	30	70	100			
03ABA103.3		OR HISTORY OF MILITARY SCIENCE										
03ABA104.1	PAPER-I	REPRESENTATIVE WESTERN POLITICAL THINKERS	4	-	-	4	30	70	100			
03ABA104.2	PAPER-II	INTERNATIONAL RELATIONS	4	-	-	4	30	70	100			
03ABA105.1	PAPER-I	MONEY, BANKING AND PUBLIC FINANCE	4	-	-	4	30	70	100			
0ABA105.2	PAPER-II	QUANTITATIVE TECHNIQUES	4	-	-	4	30	70	100			
03ABA105.3		OR ECONOMY OF RAJASTHAN										
03ABA106.1	PAPER-I	REGIONAL GEOGRAPHY OF CONTINENTS	4	-	-	4	30	70	100			
03ABA106.2	PAPER-II	GEOGRAPHY OF INDIA	4	-	-	4	30	70	100			

03ABA106.3	PRACTICAL	GEOGRAPHY PRACTICAL	4	-	2	6	-	-	-	50	50	100
03ABA107.1	PAPER-I	HOME SCIENCE EXTENSION EDUCATION	4	-	-	4	30	70	100			
03ABA107.2	PAPER-II	FAMILY RESOURCES MANAGEMENT AND INTERIOR DESIGNING	4	-	-	4	30	70	100			
03ABA107.3	PRACTICAL	HOME SCIENCE PRACTICAL	4	-	2	6	-	-	-	50	50	
03ABA108.1	PAPER-I	FOUNDATION OF SOCIOLOGICAL THOUGHT	4	-	-	4	30	70	100			
03ABA108.2	PAPER-II	SOCIAL ANTHROPOLOGY	4	-	-	4	30	70	100			
03ABA109.1	PAPER-I	ABSTRACT ALGEBRA	4	-	-	4	30	70	100			
03ABA109.2	PAPER-II	ANALYSIS	4	-	-	4	30	70	100			
03ABA109.3	PAPER III	DISCRETE MATHEMATICS	4	-	-	4	30	70	100			
03ABA109.4		OR OPTIMIZATION TECHNIQUES & STATISTICS										
03ABA109.5		OR NUMERICAL ANALYSIS AND PROGRAMMING IN C THEORY										
03ABA110.1	PAPER-I	PAPER - I : COMPARATIVE ADMINISTRATIVE SYSTEMS(03ABA110.1)	4	-	-	4	30	70	100			
03ABA110.2		OR PAPER - I - ADMINISTRATIVE THINKERS (03ABA110.2) INDIA										
03ABA110.3	PAPER-II	LOCAL ADMINISTRATION IN INDIA	4	-	-	4	30	70	100			
03ABA111.1	PAPER-I	PSYCHOPATHOLOGY	4	-	-	4	30	70	100			
03ABA111.2	PAPER-II	ORGANIZATIONAL BEHAVIOUR	4	-	-	4	30	70	100			

03ABA111.2	PRACTICAL	PSYCHOLOGY – PRACTICALS	4	-	-	4	-	-	-	50	50	100
03ABA112.1	PAPER-I	ENVIRONMENTAL RISK AND IMPACT ASSESSMENT	4	-	-	4	30	70	100			
03ABA112.2	PAPER-II	ENVIRONMENTAL POLLUTION AND HEALTH	4	-	-	4	30	70	100			
03ABA113.1	PAPER-I	PALAEONTOLOGY	4	-	-	4	30	70	100			
03ABA113.2	PAPER-II	IGNEOUS AND METAMORPHIC PETROLOGY	4	-	-	4	30	70	100			
03ABA114.1	PAPER-I	TEACHING LEARNING PROCESS	4	-	-	4	30	70	100			
03ABA114.2	PAPER-II	GUIDANCE AND COUNSELING	4	-	-	4	30	70	100			
03ABA115.1	PAPER-I	PUNJABI -PAPER-I	4	-	-	4	30	70	100			
03ABA115.2	PAPER-II	PUNJABI -PAPER-II	4	-	-	4	30	70	100			

प्रथम पत्र: आधुनिक काव्य

03ABA101.1

Scheme

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

पाठ्यपुस्तकें:

1. अयोध्यासिंह उपाध्याय 'हरिऔध'
 1. इन्द्र का गर्वहरण, प्रिय प्रवास, साहित्य कुटीर, वाराणसी.
 2. 'एक बूंद', 'तिनका' कविताएँ, चुभते-चौपदे और चोखे चौपदे काव्य संग्रह से, साहित्य कुटीर, वाराणसी.
2. मैथिलीशरण गुप्त
 1. 'सखी वे मुझसे कहकर जाते' (यशोधरा), साहित्य सदन, चिरगाँव, झाँसी.
 2. साकेत (नवम् सर्ग)
3. जयशंकर प्रसाद
 1. श्रद्धा सर्ग (कामायनी), भारती भवन, इलाहाबाद.
4. सूर्यकान्त त्रिपाठी 'निराला'
 1. जागो एक बार, निराला रचनावली, राजकमल प्रकाशन, दिल्ली.
 2. बादल राग-1, निराला रचनावली, राजकमल प्रकाशन, दिल्ली.
5. सुमित्रानन्दन पंत
 1. नौका विहार, रश्मिबन्ध काव्य संग्रह, राजकमल प्रकाशन, दिल्ली.
 2. परिवर्तन, रश्मिबन्ध काव्य संग्रह, राजकमल प्रकाशन, दिल्ली.
6. रामधारी सिंह दिनकर
 1. कुरुक्षेत्र (छठा सर्ग), राजपाल एण्ड सन्स दिल्ली.
7. गजानन्द माधव मुक्तिबोध
 1. लकड़ी का बना रावण, ('चौद का मुँह टेढ़ा है' काव्य संग्रह से), भारतीय ज्ञान पीठ प्रकाशन, नई दिल्ली.
 2. भूल-गलती, ('चौद का मुँह टेढ़ा है' काव्य संग्रह से), भारतीय ज्ञान पीठ प्रकाशन, नई दिल्ली.
8. धर्मवीर भारती,
 1. कनुप्रिया, (प्रारम्भिक तीन गीत), भारतीय ज्ञान पीठ प्रकाशन, नई दिल्ली.
9. सच्चिदानन्द हीरानन्द वात्स्यायन 'अज्ञेय'
 1. हरी चास पर क्षण भर (इत्यलम् काव्य संग्रह से), संचिता काव्य संग्रह, संपादक-बाल कृष्ण राव, रंजना प्रकाशन, आगरा.
 2. बावरा अहेरी (बावरा अहेरी काव्य संग्रह से), रंजना प्रकाशन, आगरा.
10. महादेवी वर्मा
 1. दीपशिखा से प्रारम्भिक तीन गीत, लोकभारती प्रकाशन, इलाहाबाद.
11. नरेश मेहता
 1. सूर्योदय: एक संभावना (जहाँ-जहाँ क्षितिज है), संवाद प्रकाशन, मेरठ.
 2. वैष्णव यात्रा (जहाँ-जहाँ क्षितिज है), संवाद प्रकाशन, मेरठ.

काव्य शास्त्र रस- परिभाषा, उद्भव, प्रकार, अवयव एवं रस निष्पत्ति.

द्वितीय पत्र: कथा साहित्य (उपन्यास एवं कहानी)

03ABA101.1

Scheme

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

पाठ्यपुस्तकें:

1. ज्यों मेंहदी को रंग (उपन्यास), मृदुला सिन्हा, प्रभात प्रकाशन, नई दिल्ली.
2. कहानी संग्रह
कहानी संग्रह निम्नानुसार
1. उसने कहा था - चन्द्रधरशर्मा गुलेरी, समालोचक पत्र, जयपुर.
2. पुरस्कार - जयशंकर प्रसाद, भारती भवन, इलाहाबाद
3. पूस की रात - प्रेमचन्द, प्रेमचन्द की सम्पूर्ण कहानियाँ, लोकभारतीय प्रकाशन, इलाहाबाद.
4. ताई - विश्वम्भरनाथ शर्माकौशिक पंचशील प्रकाशन, जयपुर.
5. नशा - मन्नु भण्डारीसत्तपर्णा, सम्पादक सुरेशचन्द्र, फ्रैंक एण्ड ब्रदर्स, दिल्ली.
6. एक गौ - जैनेन्द्र कुमार, कथा सौरभ(संकलन), डॉ. विजयपाल सिंह, प्रगति प्रकाशन, अजमेर
7. शृंगार - ज्वाला प्रसाद 'विपुल' साहित्यागार, जयपुर.
8. मेरा घर कहाँ - नासिरा शर्माखुदा की वापसी(कहानी संग्रह), वाणी प्रकाशन, दिल्ली
9. खोई हुई दिशाएँ - कमलेश्वर, कमलेश्वर की प्रतिनिधि कहानियाँ, राजपाल एण्ड संस, दिल्ली

ENGLISH

Scheme

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

PAPER-I : ENGLISH POETRY AND DRAMA

03ABA102.1

Note: Candidates will be required to answer five questions in all, one from each Unit. However, there will be internal choice as part of unitization scheme. All questions will carry equal marks.

All questions will carry equal marks.

Unit-I Four passages for explanation with reference to the context from the texts prescribed in Units III and IV.

Unit-II Objective-type Questions 10, Short-answer Questions 10

Unit-III (For detailed study)

From String Of Gold (Part-III) ed. Dr. Jasbir Jain (Macmillan).

Alfred, Lord Tennyson : Ulysses.

Robert Browning : My Last Duchess, The Last Ride Together.

Mathew Arnold : Rugby Chapel.

G.M. Hopkins : The Sea and the Skylark.

W.B. Yeats : The Wild Swans at Coole.

Robert Frost : Birches.

Rupert Brooke : The Soldier.

T.S. Eliot : Preludes.

W.H. Auden : In Memory of W.B. Yeats:

Dylan Thomas : Fern Hill.

Unit-IV (For detailed Study) Galsworthy : Strife

G.B. Shaw : Candida.

Unit-V 20

Literary History : The Victorian Period. The Present Age.

Literary Terms : Dramatic Monologue, Paradox, Antithesis,

Symbol, Problem Play, Essay, Novel, Free

Verse, Short Story.

Recommended Books :

1. W.H. Hudson : An Outline History of English Literature.

2. M.H. Abrams : A Glossary of Literary Terms (Macmillan)

Paper II : PROSE AND FICTION

03ABA102.2

Note:

1. Candidates will be required to answer five questions in all one from each Unit. However, there will be internal choice as part of unitization scheme. All questions will carry equal marks.

2. Essays and short stories prescribed are from the following books :

(i) W.E. Williams : "A Book of English Essays" (Penguin Books)

(ii) Shiv K. Kumar (ed.) : Short Stories of Yesterday and Today (OUP).

Unit I Four passages for explanation with reference to the context from texts prescribed in Units III and IV.

Unit II

Objective-type Questions

Short-answer Questions

Unit-III (For detailed study) Goldsmith : The Man in Black

Leigh Hunt : Getting up on cold mornings

J.B. Priestly : On Doing Nothing

A.A. Milne : A Village Celebration

Harold Nicholson : Men's Clothes

Ivor Brown : A Sentimental Journey

Unit-IV (For detailed study) Joyce Cary : Growing Up

Nathaniel Hawthorne : Dr. Heidegger's Experiment

O'Henry : The Gift of the Magi

Katherine Masefield : A Cup of Tea

Manohar Malgaonkar : Upper Division Love.

Khushwant Singh : Karma.

Unit-V (For Non-detailed study) Ernest Hemmingway : Old Man and the Sea.

Anita Desai : Diamond Dust.(The first four stories)

HISTORY

Scheme

Two Papers Min.Pass Marks : 72 Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100

Paper-II Duration 3 hours Max.Marks : 100

PAPER - I: MODERN INDIAN HISTORY (1740-1956 A.D.)

03ABA103.1

Part A Marks –Note : Part A will contain 10 question in all. candidate are required to attempt all question in 20 words each. All questions carry equal marks.

Part B Marks –Part B will contain 05 question having one internal choice. Candidate are required to attempt five questions 50 words each. All questions carry equal marks.

Part C Marks -Part C will contain 05 questions in all. Candidate are required to attempt 03 questions in 400 words each. All questions carry equal marks.

PART – A

Third Battle of Panipat and its consequences. Marathas under Mahadji Sindhia and Nana Phadnavis, Maratha Struggle with the British. Causes of the failure of the Marathas.

Establishment of British rule in Bengal and consequent administrative changes during (1772-1773) Emergence of regional powers. Mysore, Punjab and Awadh, their struggle with British and their absorption in the British Empire.

PART – B

Uprising of 1857, causes, nature and consequences.

Growth of British paramountcy in the Princely States, (1858-1947). Main features of Permanent, Roytwari and Mahalwari land revenue settlements and their impact on peasantry.

Drain of wealth and its consequences. Economic impact of British rule, causes of the Emergence of Indian Nationalism. Role of Moderates and extremists.

Salient features of Government of India Act of 1919 and 1935.

PART – C

(i) Struggle for freedom movement from 1920 to 1947.

(ii) Growth of Communal politics.

(iii) Factors leading to independence and partition of India.

(iv) Main features of the Indian constitution of 1950.

(v) Problems and process of the integration of princely states into Indian Dominion (1947-49) and their reorganisation in 1956.

Books Recommended :

1. Bisheswar Prasad: Bondage and Freedom.
2. G.S.Sardesai: New History of the Marathas, Vol. III (also in Hindi)
3. Sumit Sarkar: Modern Indian 1885 to 1947.
4. B.N.Pande (ed.) : Centenary History of the Indian National Congress (1885-1985) Vikas Publishing House, New Delhi 1985.
5. Tara Chand: History of Freedom Movement in India in 4 vols. Publication Division, New Delhi.

PAPER II (A) : MODERN WORLD (15TH TO 20TH CENTURY)

03ABA103.2

Part A –: Part A will contain 10 question in all. candidate are required to attempt all question in 20 words each. All questions carry equal marks.

Part B -Part B will contain 05 question having one internal choice. Candidate are required to attempt five questions 50 words each. All questions carry equal marks.

Part C -Part C will contain 05 questions in all. Candidate are required to attempt 03 questions in 400 words each. All questions carry equal marks.

PART – A

Renaissance

Reformation with special reference to Martin Luther.

American war of Independence.

Industrial Revolution

French Revolution

Rise of Napoleon Bonaparte

Viena Settlement with special reference to Metternich

PART – B

Unifications of Italy and Germany with special reference to Kavour and Bismarck.

Foreign Policy of Napoleon III.

Eastern question - Crimean war, Treaty of Berlin and Balkan wars

Greater Germany - Kaiser William II

Chartist Movement in Britain

Colonial expansion of Great Britain with special reference to Asian Countries.

PART – C

Feudalism, Slavery and Feminism in Europe.

Art, Architecture and Literature in Europe

First World War (Causes and Results)

Rise of Fascism and Nazism.

Spanish Civil war and origins of World War II

Emergence of Modern Turkey,

Books Recommended:

1. Bennis, F.L.: European History Since 1870
2. Davis H.A.: An outline History of the World
3. Fisher H.A.L.: A History of Europe
4. Hazen C.D. : Modern European History
5. Knapton, Ernest John: Europe (1450-1815)
6. Lucas, Henry S.: The Renaissance and the Reformation
7. Marriott, J.A.R.: The Evolution of Modern Europe (1753-1939)

OR

PAPER II (B) : HISTORY OF MILITARY SCIENCE

03ABA103.3

Scheme of Examination

Part A Note : Part A will contain 10 question in all. candidate are required to attempt all question in 20 words each. All questions carry equal marks.

Part B -Part B will contain 05 question having one internal choice. Candidate are required to attempt five questions 50 words each. All questions carry equal marks.

Part C -Part C will contain 05 questions in all. Candidates are required to attempt 03 questions in 400 words each. All questions carry equal marks.

PART – A

Military Geography of India

(i) Geo-strategic location of India (ii) Frontiers and Boundaries of India

(iii) Main Sources of Military History

Military System in Ancient India:- Vedic Period; Epic & Puranic period; Mauryan, Gupta and Vardhan Period; Early Rajput Period (8th Century to 12th Century)

PART– B

A. Military System in Sultanate & Mughal Period with Special References to - Battle of Tarain, Ranthambore, Chittor, Jalore, Panipat - I, Kanwaha and Haldighati.

B. Military System in British Period with special reference to - Battle of Plassey, Buxar, 3rd Battle of Panipat, Anglo-Marathas and Anglo Sikhs wars.

PART – C

Warfare in Western World

(i) Roman Warfare (ii) Alexander and his campaigns (356 - 323 BC)

(iii) American war of Independence. (iv) Contribution of Napoleon Bonaparte to the art of warfare. (v) Warfare [s;ovordd of Bismarc.

Warfare between the two world war

(i) Foundation of First world war (1914-1918 AD), Causes and effects.

(ii) War strategies during second world war, causes and effects.

Books Recommended:

1- Fauja Singh; Military System of Sikhs.

2- B.K.Mazumdar; Military System in ancient India.

3- Major Qalfread dayld; Indian art of war.

4- Col. Gautam Sharma; Indian army through the age.

5- Col. Maleson; Decisive battles of Indian History.

6- Prof. V.D.Mahajan; Ancient India.

7- Winston Churchill; Second World War

POLITICAL SCIENCE

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

PAPER -I : REPRESENTATIVE WESTERN POLITICAL THINKERS

03ABA104.1

Unit I

Greek, Medieval and Early Modern Political Thinkers-

Plato : Ideal State, Justice, Philosopher King, Education, Communism. Aristotle : State, Citizenship, Property, Slavery, Revolution. St Augustine : Theory of Two cities. St Thomas Aquinas : State, Law, Christianization of Aristotle. Nicolo Machiavelli : Nation-State, State Craft, Religion and Morality.

Unit II

Contractual and Utilitarian Political Thinkers :

Thomas Hobbes : Contractual Theory, Sovereignty. John Locke : Contractual Theory & Private Property.

J.J. Rousseau : Contractual Theory & General Will. Jeremy Bentham : Theory of Utility, Law & reforms.
John Stuart Mill : Revision of Bethamite theory of utility; Liberty and Representative Government.

Unit III

Idealist and Scientific Socialist Political Thinkers :

Georg Wilhelm Hegel : Dialectical Idealism, Theory of State T.N. Green : Theory & Functions of State and liberty. Karl Marx : Dialectical & Historical Materialism, Surplus Value, Class Struggle, Revolution.

Selected Readings :

1. Ashcraft : Locke's Two Treatises of Government , London :Unwin and Hyman ,1987
2. Hacker : Political Theory
3. Wayper : Political Thought
4. Chandha : Pramukh Rajnitik Vicharak (Adarsh Prakashan)
5. Foster : Masters of Political Thought Vol. I
6. G.H. Sabine : History of Political Theory
7. J. Bowle : Western Political Thought : A Historical Introduction from the Origins to Rousseau , London : Jonathan Cape ,1947
8. J.P.Suda : History of Pol. Thought Vol. I &II
9. J.W. Allen : A History of Political Thought in the Sixteenth Century ,London : Methuen, 1967
10. Jones : Master of Political Thought Vol. II
11. Lancaster : Master of Political Thought , Vol. III
12. P.D.Sharma : Pratinidhi Rajnitik Vicharak
13. Pukh Raj Jain : Pramukh Rajnitik Vicharak
14. R.K.Mishra : Plato and Aristotle
15. R.P.Sharma :Western Pol.Thought
16. Sir E.Baker : The Political Thought of Plato and Aristotle, New York : Dover Publications, 1959
17. Sir E.Baker : Greek Political Theory : Plato and His Predecessors, New Delhi : B.L. Pulications,1964
18. W.Dunning :A History of Pol.Theories
19. Dr. M.K. Baharwal : Western Political Thought and Ism., Himanshu Publication Udaipur

PAPER -II - INTERNATIONAL RELATIONS

03ABA104.2

Unit I

International Relations :

Approaches Meaning, nature & scope : Idealistic, Realistic, System (Kaplan) & Marxist.

Actors : State and other Players.

National Power -

Meaning, Elements and limitations.

Balance of Powers :

Meaning Characteristics, Devices of maintaining Balance Power, Relevance in cotemporary world.

Unit II

Cold War

Causes, Phases and impact End of cold war and its impact on the world Politics.

Non-Alignment Movement (NAM)

Features, achievements and challenges.

Syllabus/B.A. Part -III / 61 62 / Sylla

Indian and NAM

NAM relevance in post cold war era.

International Political Economy :

- New International Economic Order.
- North-South Dialogue.
- South-South Cooperation.
- World Trade Organization (WTO)

Unit III**Foreign Policy :**

- Meaning Elements and determinants.
- Basic features of Foreign Policy of U.S.A., China and India.
- India and its relations with neighbouring Countries and USA.

International Organization :

- United Nations (UN) : Structure and Reforms.
- :Role and Significance in Contemporary era.

Regional Organizations :

- SAARC, ASEAN, European Union (EU).
- Major contemporary Trends and Issues in the World.
- Human Rights, Globalization, Global Terrorism, Environmentalism, Disarmament.

Selected Readings :

1. Anam Jaitely : International Politics :Trends and Issues
2. C. Brown : International Relations Theory ,London : Harvester Wheatsheat, 1975
3. F.I. Greenstein and : Theory of International Relations , Reading N.W. Poisby Massachusetts : Addison Wesley, 1979
4. F.S. Northedge : The International Political System ,London : Faber and Faber ,1976
5. Friedman : Introduction to World Politics
6. K.N. Waltz : The emerging structure of International Politics ,International Security ,18,1993
7. K.N. Waltz : Theory of International Politics , Reading Massachusetts, :Addison-Wesley, 1979
8. L.Claude : Power and International Relations, New York : Randon House,1962
9. Mahendra Kumar: International Politics
10. W.D. Coplin : Introduction to International Politics ,Chicago : Markham, 1971

ECONOMICS

Scheme**Two Papers Min.Pass Marks : 72****Max.Marks : 200****Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)****Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)**

Paper-I MONEY, BANKING AND PUBLIC FINANCE

03ABA105.1

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Unit I**Basic Concepts**

Money - meaning, functions and classification; Gresham's law; Role of money

in capitalist, socialist and mixed economies; Monetary standards - Metallic and paper systems of note issue.

Value of Money and Inflation

Meaning, uses and limitations of index numbers ; quantity theory of money - Cash transaction and cash balance approaches; The Keynesian approach; Inflation, deflation and reflation - definition, types, causes and effects of inflation on different sectors of the economy; Demand-pull and cost-push inflation; Measures to control inflation; Trade-off between inflation and unemployment, Philips curve.

Commercial Banking

Meaning and types; Functions of commercial banks; The process of credit creation - Purpose and limitations; Liabilities and assets of banks; Evolution of commercial banking in India after Independence; A critical appraisal, of the progress of commercial banking after nationalization; Recent reform in banking sector in India.

Unit II

Determinants of Money Supply- High powered Money and Money Multiplier.

Central Banking

Functions of a central bank, Quantitative and qualitative methods of credit control - bank rate policy, open market operations, variable reserve ratio and selective methods; Role and functions of the Reserve Bank of India; Objectives and limitations of monetary policy with special reference to India.

Nature and Scope of Public Finance

Meaning and scope of public finance; Distinction between private and public finance; Public goods vs. private goods; The Principle of maximum social advantage; Market failure; Role of the Government.

Public Expenditure

Meaning, classification and principle of public expenditure; Canons and effects of public expenditure; Trends in public expenditure and causes of growth in public expenditure in India.

Unit III

Taxation

Sources of public revenue; Taxation - meaning, canons and classification of taxes; Division of tax burden - The benefit and ability-to-pay approaches; Impact, incidence and shifting of taxes; Taxable capacity; Effects of taxation; Characteristics of a good tax system; major trends in tax revenue of the central and state government of Rajasthan.

Public Debt and Financial Administration

Sources of public borrowing; Effects of public debt; methods of debt redemption; Growth of India's public debt; The public budget - Kinds of budget; Economic and functional classification of the budget. Preparation and passing of budget in India. Various concepts of budget deficits. Recent budget of Centre and State Govt.

BASIC READING LIST

- Bhargava, R.N. (1971), The Theory and Working of Union Finance in India, Chaitanya Publishing House, Allahabad.
- Gupta, S.B. (1994), Monetary Economics, S. Chand & Company, New Delhi.
- Houghton, E.W. (Ed.) (1988), Public Finance, Penguin, Baltimore.
- Jha, R. (1998), Modern Public Economics, Routledge, London.
- Mithani, D.M. (1981), Macroeconomic Analysis and Policy, Oxford & IBH, New Delhi.
- Mithani, D.M. (1998), Modern Public Finance, Himalaya Publishing House, Mumbai.
- Musgrave, R.A. and P.B. Musgrave (1976), Public Finance in Theory and Practice, McGraw Hill, Kogakusha, Tokyo.
- Shapiro, E. (1996), Macroeconomic Analysis, Galgotia Publications, New Delhi.

ADDITIONAL READING LIST

- Day, A.C.L. (1960), Outline of Monetary Economics, Oxford University Press, Oxford.
- De Kock, M.H. (1960), Central Banking, Staples Press, London.
- Due, J.F. (1963), Government Finance, Irwin, Homewood.

Paper-II QUANTITATIVE TECHNIQUES

03ABA105.2

Part A All questions are compulsory. The answer of each question should not exceed

20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Unit I

Basic Concepts

Variables, Sets, Functions, Equations, Identities, Systems of equations. Application of straight-line system, Slope of the line, Homogeneous function.

Calculus

Differentiation of a Function; Integration of a function. Arithmetic and Geometrical progressions, Logarithm.

Matrix and Determinants

Various types of matrices, Determinants, Inverse of a matrix, Cramer's rule.

Unit II

Introduction to Statistics

Basic concepts; Population, Sample, Parameter, Frequency Distribution, Cumulative frequency; Graphic and diagrammatic representation of data, Techniques of data collection; Sampling vs. Population, primary and secondary data.

Central Tendency and Dispersion

Measures of central tendency; Mean, Median, Mode, Geometric mean and Harmonic mean. Measures of dispersion, Range, Mean Deviation, Standard deviation, Coefficient of variation, Quartile deviation, Skewness. Concept of rate of growth.

Correlation

Correlation; Simple, Coefficient of Correlation - Karl Pearson and Rank Correlation, Partial and Multiple correlation Analysis.

Unit III

Regression analysis - Estimation of regression line in a bivariate distribution - Least squares method, interpretation of regression coefficients. Interpolation (Newton's and Binomial Method)

Time Series and Index Numbers

Time series analysis - Concept and components - Determination of regular, trend and seasonal indices; Index numbers - Concept, price relative, quantity relative, value relative; Laspeyres's, Paasche's and Fisher, Family budget method; Problems in the construction and limitations of index numbers, Tests for ideal index number.

Indian Statistics

Current population census 2001. Statistical system in India. Agriculture, Industrial and Trade Statistics in India.

BASIC READING LIST

- Allen, R.G.C. (1974), Mathematical Analysis for Economists, Macmillan Press, London.
- Black, J. and J.F. Bradley (1973), Essential Mathematics for Economists, John Wiley and Sons.
- Chiang, A.C. (1986), Fundamental Methods of Mathematical Economics (3rd Edition), McGraw Hill, New Delhi.
- Croxton, F.E., D.J. Cowden and S. Klein (1973), Applied General Statistics, Prentice Hall, New Delhi.
- Gupta, S.C. and V.K. Kapoor (1993), Fundamentals of Applied Statistics, S. Chand and Sons, New Delhi.
- Speigal, M.R. (1992), Theory and Problems of Statistics, McGraw Hill Book, London.

Or

Paper-II Economy of Rajasthan

03ABA105.3

Part A All questions are compulsory. The answer of each question should not exceed

20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Unit I

Position of Rajasthan in Indian Economy

Population, Area, Agriculture, Industry and Infrastructure, Population : Size and growth, Districtwise Distribution of Rural and Urban Population, Occupational Structure and Human Resource Development (Literacy, Health and Nutrition indicators), Problems of Poverty and Unemployment.

Natural Resource Endowments :

Land, Water, Livestock, Forests and Minerals. State Domestic Product and its trends. Environmental Pollution and Problems of sustainable development. Draught and Famine Problems in Rajasthan.

Unit II

Agriculture

Land Utilisation, Major crops and cropping pattern. Land Reforms: Rajasthan Tenancy Act, Ceiling on land and Distribution of land. Animal Husbandry: Importance of Livestock, Dairy Development Programme, Problems of Sheep and Goat Husbandry, Transhumance in Rajasthan. Irrigation and power infrastructure in the State. Planning in the State :Objectives and achievements, Constraints in the economic development of Rajasthan.

Unit III

Industrial Development in the State during five year plans, Regional variation in Industrial development small scale industries and handicrafts, industrial policy, Role of RFC, RSMDC and RIICO in the industrial development of Rajasthan. Tourism Development in Rajasthan, Special Area Programmes, Self-employment and wage employment programmes in rural areas in particular, DDP, DPAP, TAD and other region specific programmes.

BASIC READING LIST

1. Economic Survey: Government of Rajasthan.
2. Budget Studies : Government of Rajasthan
3. Income Expenditure Analysis : Government of Rajasthan
4. Studies Published by Directorate of Economics and Statistics, Government of Rajasthan.
5. Five Year Plan Documents : Government of Rajasthan.
6. Statistical Abstract: Government of Rajasthan.

Note:- Students are expected to study latest Government Policies and Data published from time to time by various departments and Department of Economics and Statistics, Government of Rajasthan.

GEOGRAPHY

Scheme

I & II Papers Min.Pass Marks : 72

Practical(III)-Pass marks 40

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-III- Practical 100 (50External&50 Internal)

(For each batch of 20 students)

Total Marks= 200+100 = 300,

Student will have to pass separately in theory and practical

PAPER-I : REGIONAL GEOGRAPHY OF CONTINENTS

03ABA106.1

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Note:-

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part - A, Part - B and Part - C
2. Part-A is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question of 1.5 marks.
3. Part-B is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question (50 words).
4. Part-C - contains six questions, two from each unit. Candidate is required to attempt three questions one from each unit. Each question (400 words).
5. Questions will be asked on continent as a whole. Course Contents:

Unit - I Asia

in the context of the world. Terrain pattern, drainage, climate, natural vegetation, soils, minerals and industries, spatial distribution of population and economic development of continent. Europe : Terrain pattern, drainage, climate, natural vegetation, soils, minerals and industries, spatial distribution of population and economic development of continent.

Unit - II

North America Terrain pattern, drainage, climate, natural vegetation, soils, minerals and industries, spatial distribution of population and economic development of continent. South America Terrain pattern, drainage, climate, natural vegetation, soils, minerals and industries, spatial distribution of population and economic development of continent.

Unit - III

Australia & New Zealand Terrain pattern, drainage, climate, natural vegetation, soils, minerals and industries, spatial distribution of population and economic development of continent. Contemporary issues in world geography: Globalisation, W.T.O. and world Summit, UN Environment programmes (UNEP), UN Development programmes, Environment and sustainable development; Disaster management- types (Natural and Man made), Concept of region and its relevance.

Books Suggested :

1. Cole, J. : A Geography of the World's Major Regions, Routledge, London, 1996.
2. Deblij, H.J. : Geography : Regions and concepts, John Wiley, New York 1994.
3. Jackson, R.H. and Hudman, L.E. : World Regional Geography: Issues for Today John Wiley, New York, 1991.
4. Minshull, G.N. : Western Europe, Hodder & Stoughton, New York, 1984.
5. Patterson, J.H. : Geography of Canada and the United States. Oxford University Press, 1985.
6. Shaw E.B. : Anglo American - A Regional Geography.
7. Minshull Roger: Regional Geography.
8. James P.E. Latin America Cas sed and Co. London.
9. *MkW- txnh'k flag ,oa MkW- oh-ih-jko % rhu nf{k.kh egk}hi] olqU/kjk izdk'ku] xksj[[kiqjA*
10. Minshull Roger: The changing nature of Geography.
11. Jarrot H.Q. : Africa
12. *fuxe ,l-,u- % rhu nf{k.kh egk}hi*
- 13- *,e-,l-Mh- dkSf'kd % HkkSxksfyd fopkj/kkjk,sa ,oa fof/k ra=*

14. James P.E. : Latin America, Cassed and Co., London
15. Trewartha G.T. : Japan (The University of Wisconsin Types)
16. AckvernlIn E.A. : Japan's Natural Resources.
17. Stamp L.D. : Africa, John Willey & Sons, New York.
18. Butland G.J. : South Africa.
19. C.B. Crassey : Geography of China.
20. *Ckuokjh yky % mUkjh vesfjdk dk Hkwxsy*

PAPER-II: GEOGRAPHY OF INDIA

03ABA106.2

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Note:-

1. Each theory paper is divided into three independent units. The question paper is divided into three parts, Part - A, Part - B and Part - C
2. Part-A is compulsory and contains 10 questions (20 words), at least three questions from each unit, each question.
3. Part-B is compulsory and contains five questions, at least one from each unit. Candidate is required to attempt all five questions. Each question (50 words).
4. Part-C contains six questions, two from each unit. Candidate is required to attempt three questions one from each unit. Each question (400 words).

Course Contents :

Unit - I

India in the context of the South-East and South Asia; India : A land of diversities; unity within diversities. Major terrain elements of India and their role in shaping physical landscape of India. Drainage systems. Regional and seasonal variation of climate - The monsoon, Western disturbance, norwesters. Climatic regions of India. Soil types. - their distribution and characteristics, vegetation types and their distribution. Forest - The status of their use and need for conservation.

Unit - II

Agriculture, irrigation and multipurpose projects, Geographical conditions, distribution and production of wheat, rice, sugarcane, cotton, jute, coffee, tea; Live stock, Fisheries. Resources : minerals - iron-ore, copper, manganese and sources of power coal, petroleum, hydropower, atomic energy, Resource Regions of India; Industries - Iron and steel, textile, cement, paper and pulp; Industrial regions of India; Transportation - railways, road, air and water.

Unit - III

Changing nature of Indian economy - Agricultural growth during the plan period; Green revolution vis-a-vis traditional farming; Agricultural regions and its relevance in agricultural development planning. Spatial distribution of population and density; Socio Economic implications of population explosion; urbanization; Gender discrimination. Basis of regional planning, planning divisions of India - macro and meso; Regional planning of rural and urban regions. .

Suggested Reading/Books:

1. Deshpande C.D. : India - A Regional Interpretation, Northern Book Centre, New Delhi, 1992.
2. Singh R.L. (ed.) : India - A Regional Geography, National Geographical Society, India, Varanasi, 1971.
3. Spate; O.H.K. and Leammonth, A.T.A. : India and Pakistan - Land People and Economy, Methuen & Co., London, 1967.

4. Wadia, D.N. : Geology of India, McMillan & Co., London 1967.
5. Dr. Khullar : India (A Comprehensive Geography) Kalyani Publication, New Delhi.
6. Negi: Geography of India.
7. Govt. of India : Five Year Plans of India.
8. Indian Year Book (Latest Edition) : Publication Division, Delhi.
9. Irrigation Atlas of India.
10. Chatterji, S.B. : Climatology of India (Calcutta University, Calcutta)
11. Gazetteers of India: Publication Division, New Delhi.
12. *oh-ds-frokjh % Hkkjr dk o`gr Hkwxksy] fgeky; ifCyds'ku*
13. *ekeksfj;k ,oa tSu % Hkkjr dk o`gr Hkwxksy] lkfgR; Hkou] vkxjk*
14. *lqjs'k pUnz caly] Hkkjr dk o`gr Hkwxksy*

GEOGRAPHY PRACTICAL

03ABA106.3

Contents :

1. Projection - General principles, classification and choice of projections, construction, properties, merit and demerits, limitations and use of projections, Projections suitable for map of India.
2. Cylindrical: Simple, equal area, Gall's and Mercator's projection. Zenithal (Polar case) : Equidistant, Equal Area, Gnomonic, Orthographic, Stereographic. Conical: One standard parallel, two standard parallels, Bonne's and Poly conic. Conventional: Mollweide's, Sinusoidal projection
3. Statistical methods - Computation of data, Preparation of frequency tables, Graphical presentation of frequencies distribution, histogram, frequency polygon, frequency curve and ogive. Mean, Median and Mode; Quartile, Standard deviation, Lorenz curve. Calculation of coefficient of correlation (Spearman's and Carl Pearson's)
4. Diagram - Value-area cartogram, Triangular diagram, Ergograph - simple, Rainfall dispersion diagram.
5. Prismatic Compass Survey - Importance, Appliances, Methods: Radiation, Intersection, Traverse (closed and open traverse), correction of bearings and removal of closing error - Bowditch, graphical and mathematical method, Calculation of WCB, RB and calculation of included angles (CIA).

Suggested Books :

1. Kellaway, Georgep : Map Projection, Methuem & Coy, London.
2. Steers, J.K. : Map Projections, University of London press, London.
3. Singh, R.L. : Elements of Practical Geography, Kalyani Publishers, New Delhi.
4. *'kekZ] ts-ih- % izk;ksfxd Hkwxksy] jkt- jLrksxh izdk'ku] esjBA*
5. *tSu] ,e-,l- % iz;ksxkRed Hkwxksy ¼aikVZ r`rh;½] lkfgR; Hkou] vkxjKA*

HOME SCIENCE

Scheme

I & II Papers Min.Pass Marks : 72

Practical(III)-Pass marks 40

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-III- Practical 100 (50External&50 Internal)

(For each batch of 20 students)

Total Marks= 200+100 = 300,

Student will have to pass separately in theory and practical

PAPER I : HOME SCIENCE EXTENSION EDUCATION

03ABA107.1

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Note : Each theory paper is divided in to three parts Parts – A, Parts – B and Part – C.

Parts – A :- is compulsory and contain 10 questions (20 words each) at least 3 questions from each unit.

Part – B :- is compulsory and contains 5 questions (50 words each) atleast one question from each unit, each question.

Part – C :- contains 6 questions two from each unit. Candidate is required to attempt 3 question one from each unit. Each question is (400 words).

UNIT-I

1. Home Science-i Meaning, Definition ii Objectives and Scope iii Areas of Home Science – Objectives and Scope of each area Education

2. Extension Education

i Meaning and Definition of Education, Extension and Extension Education

ii Philosophy of Extension Education.

iii Principles of Extension Education.

iv Basic Elements of Extension Education

3. Community Development

I Meaning and Definition of Community, Development and Community Development.

Ii Objectives and Principles of Community Development.

iii Scope and organizational set up of Community Development.

Iv Extension Programmes in India

V On going national, rural and urban development programmes for women and children – DWCRA, ICDS, WDP, KVK, NREP, SGSY, RCH etc.

Vi Role of NGO's in developmental effort – CAPART, CHETNA, CARE, SEWA & Others.

vii Panchayati Raj in India – Concept, Objectives and Structural Organisation

UNIT – II

4. Communication –

i. Meaning and definition

ii. Types

iii. Methods, Barriers and Problems in communication.

iv. Importance and scope of communication in development.

5. Communication Process

i. Concept and Importance in Communication Process.

ii. Elements of Communication Process and their characteristics.

6. Media of Communication

i. Definition ii. Role and Selection iii. Classification. iv. Types –

(a) Non – Projected communication aids (b) Projected and Electronic Communication aids.

v. Advantages and Limitations.

UNIT – III

7. Extension Approaches/Methods.- Individual / Group / Mass.

8. Community Development Programme Approach

- Multi purpose - Growth centered - Minimum needs

- Integrated - Target group - Area - Antyodaya

9. Approaches and methods of Socio-Economic Analysis

- Rapid Rural Appraisal - Survey - Participatory Rural appraisal

References :

1. Singh, R., Text Book of Extension Education, Sahitya Kala Prakashan, Ludianai, 1987.
2. Supe, S.V., An Introduction to Extension Edu. Oxford, I.B.H. New Delhi, 1984.
3. Dhama, O.P. & Bhatnagar, O.P., Extension and communication for development, Oxford to IBH publishing Pvt. Ltd. New Delhi, 1985.
4. Extension Education in Community Development Directorate of Extension, Ministry of Food and Agriculture, Government of India, New Delhi, 1961.
5. Devdas, R.P. Text Book of Home Science, NCERT, New Delhi, 1980.
6. Singh, K. Principle of Sociology, Prikashan Kendra Luckhnow, 1980. Almenyso, Social Change: Developments Sage Publication Pvt. Ltd. Madras, 1990.
7. Almentso, Social Change: Developments Sage Publication Pvt. Ltd. Madras, 1990.
8. Reddy, A., Extension Education, Sre Laxmi press Bapatla, 1987.
9. Desai, Va A Study of Rural Economics System Approach, Himalya Publishing House, New Delhi, 1990
10. Mann, Peter, H., Methods of Social investigation, Basic Blackwell, 1985.
11. Duran, J. Communication for rural Development British Council, London, U.K. 1978.
12. *gjiky kuh & f'k{kk izlkj 13- bNVksfn;kj Jaxh &*

PAPER II : FAMILY RESOURCES MANAGEMENT AND INTERIOR DESIGNING

03ABA107.2

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

UNIT – I

1. Household Economics.

- (a) Wants – Definition, classification, characteristics and factors influencing want.
- (b) Laws of consumption – meaning, Limitations and application of factors
 - (i) Laws of Diminishing Marginal utility.
 - (ii) Laws of equiarginal utility / substitution
- (c) Family income –
 - (i) Types of income
 - (ii) Budget Meaning and steps in making a family budget.
 - (iii) Saving and investment: importance, factors determining saving, characteristics of investment, and various saving and investment schemes.
 - (iv) Household accounts.
- (d) Markets : Definition, types of markets and their advantage Super Market, departmental stores, Reatil units, consumer cooperative store.
- (e) Consumer problems and various programme for their protection.

UNIT – II

2. Home Management

- (a) Definition of Home, Management and Home Management
- (b) Obstacles to the Improvement of Management
- (c) Factors Motivating management –
Values, Goals and Standards –
Definition/Meaning, Types, Characteristics & interrelationship.

(d) Management Process : Planning, controlling, evaluation-meaning, types, steps / process & limitation.

(i) Decision making : Importance and steps involved in decision making process, Limitations.

3. Resources characteristics –

Types, Characteristics, Classification and factors affecting resources.

4. Time and energy Management

i. Time norms, Peak load, work curve, leisure time, rest period.

ii. steps in making time plan.

iii. Body Mechanics

iv. Work simplification – and class of change.

v. Fatigue – Types and ways to overcome fatigue.

5. Functional designing of Kitchen – types, work places (Center-concept) and storage principles.

UNIT – III

6. House Designing

(a) The modern family and its housing needs.

(b) Effects of housing on family life and activities.

(c) Division of space on basis of activities.

(d) Factors governing the house plans : Selection of site, orientation, income, socio-economic status, stage of family-life cycle, occupation and activities of the family members, room orientation, grouping of rooms, functionalism, circulation within and between the rooms, flexibility etc.

7. Interior Decoration

(a) Design : Meaning and types.

(b) Objectives of interior decoration.

(c) Principles of arts and their application in interior decoration balance, proportion, harmony, rhythm, emphasis.

(d) Elements of arts and their application in interior decoration. Lines, texture, form, pattern and colour.

(e) Furniture – selection and principles of arrangements.

(f) Furnishing, selection of curtains, carpets and other furnishing material.

References:

1. Dewet, K.K. & Verma : Elementary Economic Theory, s.Chand & Co. Delhi.

2. Ahuja, H.L. : Principles of Micro – economics, S. Chand & Co. Delhi.

3. agarwal A.N. : elementary Economics.

4. Groos, Irma H. : Management for Modern Families Sterling & Cradall E.M. Publishers (P) Ltd. Delhi.

5. Nickel, Paulen & Dorsey M. : Managment in Family Living Johan Willey & Sons, New York.

6. Rutt. Anna Hong : Home Furnishing – willey Eastorn P.Ltd.N. Delhi.

7. Poet Losies, J. and Packett Marys Household Equipments John Willey & Sons and Packett Mary S.

8. Agan, Tessie : The house – Its Plans and Use – Oxford & IBH Publishing Co. New Delhi.

9. Deshpande R.S. : Modern Ideal Homes for India United Book Corpn. Poona.

10. Sleidal R.E. & Bratton E.C. works in Home.

HOME SCIENCE PRACTICALS

03ABA107.3

Duration of Exam -3 hrs. Max. Marks 50

Hrs/Wk – 2 hrs/batch Min. Marks 18

- A.** 1. Table Setting, Formal and Informal, Traditional style.
2. Arrangements for various occasions – Diwali, Birthday, New Year, Holi, any other.
3. Making of house plan (2 Bedroom) on Graph Paper.
4. Placement of furniture and colour scheme various room.
5. Floor decoration – Rangoli/Alpana.
- B.** 1. Planning, preparation and presentation of communication aids
i. Poster, Chart, Flash Cards, Pamphlets / Leaflets.
ii. Bulletin Board Display. iii. Demonstration. iv. Role play/Dramatization
Assessing any two of the following –
T.V. Programme, News Stories/Magazine article, Social and Commercial Advertisement.

SOCIOLOGY

Scheme

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper – I : FOUNDATION OF SOCIOLOGICAL THOUGHT

03ABA108.1

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Unit – I

The Emergence of Sociology

Transition from social philosophy to Sociology – The Intellectual context.

Enlightenment – The Social, Economic and Political forces.

The Pioneers : A. Comte: Positivism, H. Spencer: Social Darwinism.

Unit – II

The classical Tradition:

Emile Durkheim: Social Solidarity, social fact and suicide.

Max Weber: Social action, Bureaucracy and Religion.

Karl Marx: Class struggle, Dialectical materialism and Alienation.

Unit – III

The Indigenous Tradition

Development of Sociological thought in India.

Radha Kamal Mukerjee: Social Values, Social ecology.

G.S. Ghurye: Caste, Class and occupation, Social tension.

Essential Readings :

Aron, Raymond. 1967 (1982 reprint): Main Currents in Sociological thought (2 Volumes) Harmondsworth, Middlesex: Penguin Books.
 Barnes, H.E. 1959: Introduction to the History of Sociology, Chicago: The University of Chicago Press.
 Coser, Lewis A. 1979: Masters of Sociological Thought, New York: Harcourt Brace Jovanovich.
 Fletcher, Ronald, 1994: The Making of Sociology (2 Volumes) Jaipur: Rawat Publication.
 Morrison, Ken, 1995: Marx, Durkheim, Weber: Formation of Modern Social Thought London Sage.
 Ritzer, George, 1996. Sociological Theory, New Delhi: Tata-McGraw Hill.
 Singh, Yogendra, 1986: Indian Sociology: Social conditioning and emerging trends, New Delhi, Vistaar.
 Zeitlin, Irving, 1998 (Indian Edition): Rethinking Sociology: A Critique of Contemporary sociological theory, Jaipur, Rawat Publication.

संस्कृत में समाजशास्त्र का अर्थ है समाज के अस्तित्व, विकास और परिवर्तन का अध्ययन। यह समाज के अंदरूनी संरचना, व्यवस्था और मान्यताओं का अध्ययन करता है। समाजशास्त्र समाज के अस्तित्व, विकास और परिवर्तन का अध्ययन करता है। यह समाज के अंदरूनी संरचना, व्यवस्था और मान्यताओं का अध्ययन करता है। समाजशास्त्र समाज के अस्तित्व, विकास और परिवर्तन का अध्ययन करता है। यह समाज के अंदरूनी संरचना, व्यवस्था और मान्यताओं का अध्ययन करता है।

Paper – II : SOCIAL ANTHROPOLOGY

03ABA108.2

Part A All questions are compulsory. The answer of each question should not exceed 20 words. All questions carry equal marks.

Part

All questions are compulsory. The answer of each question should not exceed 50 words. All questions carry equal marks.

Part The candidate should attempt 3 questions selecting one question from each unit. The answer should not exceed 400 words. All questions carry equal marks.

Unit – I

Social Anthropology: Definition, Nature and Scope, Concept of Tribe, Tribe and Caste.

Culture: It's meaning theories of culture-Growth

Unit – II

Social Structure: Marriage, Family and Kinship.

Magic and Religion in Tribal Society

Primitive Economic and Political System.

Unit – III

Problems of Tribal People: Poverty, Illiteracy, Indebtedness, Land alienation

Tribal Movements: Colonial and Post-independence Period.

Tribal Communities of Rajasthan: Bhil, Meenas and Garasiyas.

Essential Readings :

Bose, M.K. (1967): Culture and Society in India, New Delhi: Asia Publishing House

Dube, S.C. (1977): Tribal Heritage of India, New Delhi: Vikas

Rao, M.S.A. (1979): Social Movements in India, Delhi: Manohar

Singh, K.S. (1982): Tribal Movements in India Vol. – I and II Delhi: Manohar

Singh, K.S. (1995): The Scheduled Tribes, New Delhi: Oxford University Press.

Johan Beatie: Other culture.

Majumdar and Madan: Introduction to Social Anthropology.

Bohannan: Social Anthropology

MATHEMATICS

Three Papers Min.Pass Marks : 108

Max.Marks : 300

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-III Duration 3 hours Max.Marks : 100 (70External+30 Internal)

PAPER I - ABSTRACT ALGEBRA

03ABA109.1

Unit - I (Ring theory)

Ring, Examples of Rings, Ring with unity, Zero divisors, Integral Domain and Fields, their examples and properties. Characteristic of a ring and integral domain. Subrings, subfields, Prime field, Ring homomorphism, Embedding of Rings, Field of quotients of an integral domain.

Ideals and their properties. Principal ideal and principal ideal ring, Prime ideal, Maximal ideal. Ideals and Quotient rings, Euclidean rings, Unique Factorisation Domain, Polynomial rings, Remainder theorem, Factor theorem, Polynomials over the rational fields.

Unit - II (Linear Algebra)

Vector Spaces : Definition and examples of a vector spaces, subspaces, Sum and direct sum of subspaces, linear span, linear Dependence, Independence and their basic properties, Basis, finite dimensional vector spaces, Existence theorem for basis, invariance of the number of elements of a basis set, Dimension, existence of complimentary subspace of a subspace of a finite dimensional vector space, dimension of sums of subspaces, quotient space and its dimension.

Linear transformations : Linear Transformations and their representation as matrices, the algebra of linear transformations, Sylvester Law of Nullity.

Unit - III

Change of basis, Dual space, Dual Basis, Bidual space, Adjoint of a linear transformation, Annihilator of a sub space.

Eigenvalues and Eigenvectors, Similar matrices, equivalent matrices, Similarity of Linear transformations, Reduction to triangular form, Minimal Polynomial. Diagonalisation of Matrices.

PAPER II – ANALYSIS

03ABA109.2

Unit - I (Metric Spaces)

Real Number System as a complete Ordered Field.

The point set theory, Open and Closed sets, Limit point of a set, Neighbourhood, Bolzano-Weierstrass theorem, Heine-Borel theorem, Compactness, connectedness, Cantor's ternary set.

Definition and example of a metric space, Diameter of a set, Bounded set, Open sphere, Interior point and Interior of a set, Derived and Closure of set, Closed set, Closed Sphere, Properties of Open and Closed sets, Boundary point of set.

Unit - II

Convergent and Cauchy sequences, Complete metric space, Cantor's Intersection theorem. Dense subset, Baire Category theorem. Limit of a function, Continuous function, Theorem on necessary and sufficient conditions for continuity of a function, Uniform continuity, Contracting mapping, Banach Fixed Point theorem, Equivalent metrics, Compactness, Sequentially compactness, Totally Bounded space, Finite Intersection properties.

Unit - III (Complex Analysis)

Complex Numbers as ordered pairs, Complex plane, Geometrical representation, Connected and compact sets, Curves and region in the complex plane, Statement of Jordan curves theorem, Extended complex plane and stereographic projection, Complex valued functions limits, Convergence, continuity, Differentiability in the extended plane, Analytic functions. Cauchy-Reimann equations (Cartesian and Polar forms). Harmonic functions, Construction of an analytic function, Conformal mapping, Bilinear transformation and its properties, Fixed points, Cross ratio, Inverse point, Elementary maps.
, Z , $\sin Z$ and $\log Z$

**OPTIONAL PAPERS III (ANY ONE OF THE FOLLOWING)
PAPER III****(A) – DISCRETE MATHEMATICS****03ABA109.3****UNIT - I**

Sets Relations and Functions: Binary Relations, Equivalence Relations and Partitions. Partial Order Relations and Lattices. Chains and Antichains. Pigeon Hole Principle. Principle of Inclusion and exclusion. Computability and Formal Languages: Ordered Sets, Languages . Phase Structure Grammars. Types of Grammars and Languages.

UNIT - II

Permutations. Combinations and Discrete Probability. Graphs and Planar Graphs: Basic Terminology. Multigraphs, Weighted Graphs. Paths and Circuits. Travelling Sales person problem, planar Graphs, Trees.

UNIT - III

Finite State Machines : Equivalent Machines, Finite State Machine as Language Recognizers, Computable functions. Boolean Algebras: Lattices and Algebraic Structures, Duality, Distributive and Complemented Lattices. Boolean Lattices and Boolean Algebras. Boolean Functions and Expressions. Propositional Calculus. Design and Implementation of Digital Networks. Switching Circuits.

OR

PAPER III (B) - OPTIMIZATION TECHNIQUES & STATISTICS

UNIT - I (OPTIMIZATION TECHNIQUES)

Formulation and Graphical solution of Linear Programming Problem, Linear independence, Linear dependence, Basis, Dimensions, Convex set and its properties. The theory of simplex method.

The Simplex algorithm and its application to simple linear programming problem, Big-M method, Two phase method.

UNIT - II

Concepts of Duality in linear programming. Formation of dual problem Assignment problem, Transportation problems.

UNIT - III

Probability : Law of total and compound probability, Random variable, Expectation, Moments, Moment generating functions.

Binomial, Poisson and Normal distribution.

OR

PAPER III (C) - NUMERICAL ANALYSIS AND PROGRAMMING IN C THEORY

03ABA109.5

UNIT - I (Numerical Analysis)

Difference operators and factorial notation, Relation between difference and derivatives, Difference of polynomial, Newton's formulae for forward and backward interpolation for equal intervals.

Divided difference, Relation between divided differences and simple differences, Newton's general interpolation formula, Lagrange's interpolation formula.

UNIT - II

Gauss central difference formula, Stirling and Bessel interpolation formulae, Inverse interpolation.

Numerical differentiation and integration, Trapezoidal rule, Simpson's 1/3, 3/8 rules, Weddle's rule, Solution of algebraic and transcendental equations, Bisection method, Regula-Falsi Method, Newton-Raphson method.

UNIT - III (Programming in C)

Programmer's Model of a computer. Algorithms, Flow charts, Data types, Arithmetic and input/output instructions, Decision control Structures.

Decision statements, Logical and conditional operators, Precedence, Associativity and priority of operators, Input and output statement, Decision making statement, Loop and branching, Case control structures, Functions, Recursions, Pre processors, Arrays, Puppeting of strings.

Practical

Duration : 2 hrs. Max.Marks:25 (Science) 23 (Arts)

Note: Distribution of marks is as follows: Science Arts

A. Two programmes (one from each section) 8+8 8+8

B. Practical Record 03 03

C.Viva Voce 06 04

SECTION - A

Program

- (1) To calculate the roots of quadratic equation.
- (2) To solve equation by bisection method.
- (3) To solve equation by Newton-Raphson –method
- (4) To solve equation by Regula-falsi method.
- (5) To solve equation by secant method.

SECTION - B

Program

- (1) To find interpolate value by Newton forward interpolation formula.
- (2) To find interpolate value by Lagrange's interpolation formula.
- (3) To evaluate integration by Trapezoidal rule.
- (4) To evaluate integration by Simpson 1/3 rule.
- (5) To evaluate integration by Simpson 3/8 rule

PUBLIC ADMINISTRATION

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

PAPER - I : COMPARATIVE ADMINISTRATIVE SYSTEMS

OR

PAPER - I - ADMINISTRATIVE THINKERS

COMPARATIVE ADMINISTRATIVE SYSTEMS

03ABA110.1

Unit I

Comparative Administration: Concept, Nature, Scope and Significance, Features of Administration of Developing and Developed Societies, Contribution of F.W. Riggs. Salient Features of the Constitutions of U.K., U.S.A. and France.

UNIT II

A comparative study of Powers and Position of President of India and U.S.A., Parliamentary System in U.K, Presidential Systems in U.S.A. and France. Salient Features of Administrative system of U.K. , U.S.A., France and Nepal with particular reference to Central Administration and Nature and Role of Civil Service.

UNIT III

Treasury and cabinet Secretariat in Great Britain ,Independent Regulatory Commissions in the U.S.A.

French Council of State, Swedish Ombudsman, Panchayat System in Nepal.

Books Recommended :

1. Ogg and Zink : Modern Foreign Government

2. H.N.Agarwal : Administrative System in Nepal
3. Podiyal : Public Administration in Nepal
4. V.D. Mahajan : Modern Select Governments
5. Vishnu Bhagwan & : World Constitution
Vidya Bhusan
6. B.L. Phadia : Vishva Ke Pramukh Samividhan(Hindi)
7. Iqbal Narain : Vishva Ke Samvidhan(Hindi)
8. Preeta Joshi : Vikas Prashasan (Hindi)
9. P.D. Sharma : Tulnatmak Rajniti (hindi)
10. Ravindra Sharma : Tulnatmak Prashasnik
Vyavasthayen(Hindi)
11. Surendra Kataria : Tulanatmak Prashashanik
Vyavasthayen (Hindi)
12. Ferrel Heady : Public Administration : A
Comparative Perspective

OR

PAPER - I - ADMINISTRATIVE THINKERS

03ABA110.2

UNIT I

Administrative ideas of Kautilya, Henri Fayol and F.W. Taylor with particular to:

1. Kautilya
 - (i) The Machinery of Government
 - (ii) Law & Order Administration.
2. Henri Fayol
 - (i) Managerial Activities.
 - (ii) Principles of Organisation
3. F.W. Taylor:
 - (i) The scientific Management Movement.
 - (ii) Impact of Taylorism of Organisation Theory.

UNIT II

Administrative Ideas of Max Weber ,Chester Bernard and Herbert Simon with special reference to :

1. Max Weber:
 - (i) Ideal Typical Model of Bureaucracy
2. Chester Bernard :
 - (i) Organisation a consciously coordinated cooperative system.
 - (ii) The Contribution- Satisfaction Equilibrium
3. Herbert Simon :
 - (i) Decision Making as Heart of Administration
 - (ii) Stages in Decision Making Process

UNIT III

Administrative Ideas of Mc Gregor , F. W. Riggs, Rensis Likert and Jawahar Lal Nehru with special reference to :

1. Mc Gregor :
 - (i) Theory 'X' and Theory 'Y'
 - (ii) Conflict Management
2. F. W. Riggs:
 - (i) Agraria - Transitia - Industria Model
 - (ii) Fused - Prismatic - Diffracted Model

3. Rensis Likert :
 - (i) Supervisory Styles
 - (ii) Management Systems 1-4
4. Jawahar Lal Nehru:
 - (i) Concept of Planning
 - (ii) Decentralized Governance

Core Readings :

1. F.W.Taylor : Scientific Management
2. Chester Bernard : The Functions of the Executive
3. Tilest, Kempner and Mills : Management Thinkers.
4. Herbert Simon : Administrative Behaviour.
5. Simon : The New Science of Management Decisions
6. March and Simon : Organization
7. Riggs : Administration in Developing Countries
8. Riggs (Ed): Frontiers of Developing Countries
9. Weidner (Ed) : Development Administration in Asia
(In items number 8 and 9 only the articles of Riggs have to be studied)
10. Chandra Hirawat : Prashasanik Vicharak (Hindi)
11. S.S Ali: Eminent Administrative Thinkers
12. S.R. Maheshwari : Administrative Thinkers.
13. Prasad and Prasad : Administrative Thinkers (In Hindi also)
14. J.L. Nehru : Discovery of India
15. R.N. Singh : Management Thinkers
16. G.S. Sudha : Prabandha Chintan Ka Itihas (In Hindi).
17. Surendra Katari a : Prashasnik Chintak (In Hindi).
18. R.C. Pollard: Developments in Management Thought.
19. P.D. Sharma : Management Thought and Thinkers.

Subsidiary Readings :

1. Nicolos P. Mouzells: Organisation and Bureaucracy.
2. Fermont E. Kast & James E- Rosenzweg : Organisation & Management
3. James March and Herbert Simon : Organizations.
4. Katz and Kahn : The Social Psychology of Organisation.
5. William G. Scott: Organization Theory- A Behavioural Analysis.
6. Billy Hodge and Herbert Johnson : Management or Organisation Behaviour
7. Riggs : The Ecology of Public Administration.
8. Riggs: Thailand : Modernisation of Bureaucratic Polity .

PAPER - II - LOCAL ADMINISTRATION IN INDIA

03ABA110.3

Unit I

Meaning, Nature, and Significance of Local-Self Government in modern state
.Evolution of Local-Self Government in India.

The Organisational Structure of Urban Local Self Government in India with special reference to the 74th Constitutional Amendment Act. Composition, Functions, Powers and Role of various kinds of Local Bodies, Local Administration of the Metropolitan Towns, Municipal Corporations and their problems of Autonomy and Accountability.

UNIT II

Theory and practice of Democratic Decentralization in India, Panchayati Raj Institutions-Zila Parishad, Panchayat Samiti, Village Panchayats and Gram Sabha: their Organisation and Functions in the context of 73rd Constitutional Amendment.

Personnel Administration in Rural and Urban Local Self Government -Recruitment, Classification, Promotion and Training. Problems of Local Self Government Employees and their Service Conditions.

UNIT III

Financial Administration of Local Bodies in India, strengthening of Local Resources with special reference to role of State Finance Commission, Mechanism of control over local bodies at State level. The role of Directorate of Local Bodies and Panchayat and Development Department of State.

Books Recommended :

1. R.Argel : Municipal Government in India
2. S.R.Maheshwari : Local Government in India
3. M.V. Mathur : Panchayati Raj in Rajasthan
4. R.L. Khanna : Municipal Government and Administration in India
5. S.K. Bhogle : Local Government in India
6. H.C. Sharma : Bharat main Stahaniya Sasan (Hindi)
7. Ashok Sharma : Bharat Main Sthaniya Prashashan (Hindi)

Subsidiary Readings

1. S.C. Jain : Community Development and Panchayati Raj
2. Government of Rajasthan : Sadik Ali Report,1964
3. Government of Rajasthan : Rajasthan Panchayats Act, 1994
4. Government of Rajasthan : Municipalities Act,1959
5. Governemnt of India : Diwakar Committee Report,1963
6. Balwant Rai Mehta : Committee Report,1957

Journals

1. Nagarlok, Delhi
2. Journal of Local Self Government, Bombay
3. Kurukshetra, New Delhi

PSYCHOLOGY

Scheme

I & II Papers Min.Pass Marks : 72

Practical(III)-Pass marks 40

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-III- Practical 100 (50External&50 Internal)

(For each batch of 20 students)

Total Marks= 200+100 = 300,

Student will have to pass separately in theory and practical

PAPER – I (PSYCHOPATHOLOGY)

03ABA111.1

General Instructions:

Each paper will contain three parts – A,B,C. Candidates are required to attempt all questions from part A & B. The word limit for part A is 20 and for part B is 50. For part C candidates are required to attempt one question from each unit, the word limit being 400.

Unit – I

Introduction of Psychopathology – The concept of normality and abnormality. Signs and Symptoms of Mental illness – Delusions; Hallucinations, Obsessions,

Compulsions etc.

Psychological Models of psychopathology – Psychodynamic, Behavioural, Cognitive and Existential. Psychological Assessment of Psychopathology: Diagnostic tests, Rating Scales, History taking interview; Projective tests.

Unit – II

Anxiety Disorders – Panic disorder and Agoraphobia, Specific Phobias, Social Phobia; Obsessive Compulsive disorder, Generalised Anxiety disorder.

Somato Form Disorder and Dissociative disorders.

Mood Disorder – Manic episode, Depressive episode, bipolar affective disorder, Dysthymia.

Schizophrenia – Delusional disorder, Brief Psychotic disorder.

Unit-III

Disorder due to psychoactive substance use – Alcohol and drug dependence.

Personality Disorder – Paranoid, Schizoid, Dissociative, Impulsive, Borderline, Anxious avoidance and Dependent Personality.

Stress disorders – Stress due to normal calamities like earthquake, Storm etc. and life events.

Mental retardation.

Note: Classroom discussion could be held on the Indian perspective on certain relevant topics

Readings :

Lamm, A. (1997). Introduction to psychopathology, N.Y.: Sage

Buss, A.H. (1999). Psychopathology. N.Y. John Wiley.

Sarson and Sarson Abnormal Psychology PHP

Carson R. and Butcher J.N. and Mineka, S. Abnormal Psychology and Modern Life. Pearson Education Publication.

PAPER – II (ORGANIZATIONAL BEHAVIOUR)

03ABA111.2

General Instructions:

Each paper will contain three parts – A,B,C. Candidates are required to attempt all questions from part A & B. The word limit for part A is 20 and for part B is 50. For part C candidates are required to attempt one question from each unit, the word limit being 400.

Unit – I

Historical context of organizational behaviour

Contributions of Taylor, Weber, Fayoll, Hawthorn studies. Definition, Challenges, Scope and Significance of Organizational Behaviour, Perspective of Understanding Organizational Behaviour – Open system approaches, Human relation perspective, Socio-technical approach, Developing an organizational behaviour model responsive to Indian realities. Organizational Culture and Climate.

Unit – II

Job satisfaction : Theories and factors, factors Influencing job satisfaction and ways to improve job satisfaction. Motivation – Theories and skills involved in motivating workers. MBO (Management By Objectives) Behaviour modification and employee involvement programs. Employee training – Need, importance and methods.

Leadership and Communication – Nature and types of leaders, Behavioural and contingency theories of leadership. Contemporary issues in leadership. Leadership and power in action, skills involved in managing politicking.

Communication – Model, Sources, Types, Directions and network of communication,

Barriers and Distortions of communication, Cross cultural communication, skills involved in communication and listening, Communication and decision making, various models of decision making.

Unit – III

Organizational change and Development – Nature, Force and Approaches to change management. Organizational development Intervention techniques, Cultural issues in change and development, Skills in managing change at individual level.

Conflict negotiation and stress in organization – Nature, Sources and techniques of managing conflict in organization, Conflict and Negotiation - strategies, Work stress – Sources and Techniques and skills involved in managing stress, Role of unions, social welfare schemes for employees.

Note: Classroom discussion could be held on the Indian perspective on certain relevant topics

Readings :

Robbins, SP (2000). Organisational behaviour : Concepts, controversies and applications. VII Edition, New Delhi: Prentice Hall of India.

Pfeffer, J.(1994). Competitive advantage through people: Unleashing the power of work force. Boston: Havard Business School Press.

Dunnette M.D. & Hough, L.M. (1992). Handbook of industrial and organizational psychology, (2nd Edition) Palo Alto: Consulting Psychology Press.

Cummings, L.L. & Staw, B.M. (eds). (1999). Research in organizational behaviour. Greenwich, CT: JAI Press.

PSYCHOLOGY – PRACTICALS

03ABA111.3

1. Short Projects

- a. Take up a short project (individually or jointly) on the issue of their interest under the supervision of the teacher.
- b. Follow a methodological approach (experimental / survey / observation / use of secondary data).
- c. Write a report.

2. Developing case account

- a. Choose atleast 3 cases with different problems.
- b. Study, making relevant observation, reporting his speech (verbal/non-verbal) and conduct interviews, obtain background information of factors leading to present problem
- c. Analysis & drawing valid inferences.

3. Field visit to psychologically relevant settings eg.

- a. Hospitals b. Schools c. Old age homes
- d. Clinics e. N.G.O. f. Industries

Take down notes and submit the report based on the field visit.

Note : Teachers may evolve methods of practicals examination

- a. May ask students to present their case.
- b. Extensive Viva of the students.

03ABA112.1

ENVIRONMENTAL RISK AND IMPACT ASSESSMENT

Course/Paper:03ABA112.1

ABA Year III

Preamble: This paper is an introduction to EIA, a systematic process that examines the environmental consequences of development actions, in advance. This process is firmly on the agenda of all environmental agencies as a result of introduction of legislations in various countries.

Introduction: Defining environmental risk in different perspectives.

Principles and procedures: Nature and purpose of environmental impact assessment (EIA). Characteristics of big project. Current issues in EIA. Worldwide spread of EIA. EIA regulations in India. Risk Assessment v/s Environmental Impact Assessment. Life cycles Assessment. Strategic Environmental Assessment.

Process and Methods of EIA: Stages, Scoping, Alternatives, Impact Identification, Establishing the Environmental base line. Impact prediction, evaluation and mitigation. Criteria and standards for assessing significant Impact. Cost- Benefit Analysis and valuation of Environmental Impacts. Public Participation, presentation and review. EIA monitoring and auditing.

Practice: Air quality Assessment; Water Impact Assessment; Social Impact Assessment; Ecological Impact Assessment; Landscape and visual Impact Assessment; Environmental Impact of surface and underground mining of metals, minerals and fossil fuels. Cumulative Effects Assessment.

Issues and problems in environmental assessment.

Suggested readings:

Glasson J., Therivel R., Chadwick. A., 1994, Introduction to environmental impact assessment- Principles and procedures, process, Practice and prospects. Research Press, Delhi.

Morris. P. & Therivel. R., 2001, Methods of environmental impact assessment, 2nd Ed. Spon Press, New York, With a chapter on GIS and EIA by A.R. Bachiller & G. Wood, p. 381-401.

Pettis Judith, 1999, Handbook of environmental impact assessment. Vol. 1, Blackwell Science.

03ABA112.2

ENVIRONMENTAL POLLUTION AND HEALTH

Course/Paper:03ABA112.2

ABA Year III

Preamble: Environmental pollution end results in adverse effect on the health of the people exposed to it. A large number of diseases are caused and spread by contaminated soil, water and air. The paper will deal with the impact of environmental pollution on health and includes the guidelines for pollution control in the context of public health.

Water sources, quality and standards. Water purification and surveillance of drinking water quality. Infections and diseases spread by contaminated water.

Air pollution: composition and sources. Air quality monitoring. National and international standards for monitoring air quality. Diseases caused by air pollution. Quality of indoor air and its effect on health. Ventilation: standards, methods and health hazards. Radiation pollution: sources, biological effects and protection. Meteorological environment monitoring. Air temperature and biological effects.

Noise pollution: source and standards. Noise pollution: health hazard and protective measures.

Housing standard and effect on health. Methods of disposal of solid waste. Diseases related to soil pollution. Problems and methods of excreta disposal.

Arthropods of medical importance. Vector-borne diseases: transmission and control. Impact of fleas, ticks and mites on health. Zoonotic diseases and their prevention and control. Hospital environment in the context of health and disease.

Pollution control in India: Government obligation, mechanism and legislation in the context of public health.

Suggested readings:

Leslie Collier, Balows Albert and Sussman Max, Topley and Wilson's Microbiology and Microbial infections. Oxford University Press.

Murray J.F. and Nadel. J.A., 2000, Text book of respiratory medicine, 3rd Edn., W.B. Saunders & Co.

Park. J.E. and Park. K., 1994, Text book of preventive and social medicine, Banarsi Das & Bhanot, Jabalpur.

GEOLOGY

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

03ABA113.1

PALAEONTOLOGY

Course/Paper:03ABA113.1

ABA Year III

Definition and sub-disciplines. Process of fossilization, preservation. Use of fossils. Brief concept of species. Ecosystem. Adaptation and functional morphology. Methods of description and illustration of fossils; taxonomic categories and codes of systematic nomenclature. Theory of evolution.

Fossil records, modes, rates and patterns of evolution. Origin, migration and extinction of Species. Applications of palaeontologic data in palaeoecology, evolution, stratigraphy, palaeoceanography and palaeogeographic reconstructions.

Invertebrate Palaeontology: Morphology, geological history, classification, evolutionary trends, ecology, biogeography and stratigraphic distribution of the following phyla: Brachiopoda, Mollusca (Class Bivalvia, Gastropoda and Cephalopoda), Echinodermata (Class Echinoidea), Arthropoda (Class Trilobita), Hemichordata (Class Graptoloidea), Cnidaria (Class Anthozoa), Bryozoa.

Vertebrate Palaeontology. Stratigraphic distribution of vertebrates. Jawless and jawed fishes. Amphibians. Dinosaurs. Cenozoic diversification of mammals. Evolutionary trends in Equidae, Proboscidae and Hominidae

Palaeobotany: Fossil record of land plants and their stratigraphic distribution. Gondwana and Deccan Intertrappean Flora.

Micropalaeontology: Microfossils and their applications. Morphology, ecology and stratigraphic distribution of foraminifera and radiolaria

03ABA113.2

IGNEOUS AND METAMORPHIC PETROLOGY

Course/Paper:03ABA113.2
ABA Year III

Rock associations in time and space. Concept of rock series, system, phase and component. Basic principles of equilibrium thermodynamics. Phase rule and one- and two-component systems. Systems with more than two components. Effect of fluids on melting behaviour. Pressure-temperature variation with depth; magma generation and physical properties of magmas. Crystallisation of various types of magmas and Bowen's reaction series. Partial melting, magmatic differentiation and assimilation. Classification and nomenclature of igneous rocks. Textures and structures of igneous rocks. Igneous structures and field relationships. Mafic rocks: layered intrusions, flood basalts, MOR and intraplate basalts. Subduction related igneous activity. Granitoids; Alkaline rocks; Anorthosites; Ophiolites. Composition of meteorites. Types of metamorphism: regional, contact, ductile and brittle shear zone, impact, and ocean-floor metamorphism. Metamorphic zones and facies concept. Nomenclature of metamorphic rocks and index minerals. Isograds. Structures and textures of metamorphic rocks. Relationship between metamorphism and deformation. Equilibrium and non-equilibrium reactions with or without fluids during metamorphism. Metasomatism. Common chemographic diagrams for metamorphic rocks. Metamorphism of mafic rocks, pelitic sediments and calcareous rocks.

EDUCATION

Two Papers Min.Pass Marks : 72

Max.Marks : 200

Paper-I Duration 3 hours Max.Marks : 100 (70External+30 Internal)

Paper-II Duration 3 hours Max.Marks : 100 (70External+30 Internal)

03ABA114.1

TEACHING LEARNING PROCESS

Course/Paper:03ABA114.1
ABA Year III

Objectives

To enable the students to

1. Analyze different types of Learning and Teaching.
2. Describe various teaching Strategies and Methods.
3. Understand various teaching techniques.
4. Know the applications of teaching aids.

Unit 1 – Teaching and Learning

- Modalities of teaching: Training, Instruction, Conditioning, Indoctrination and Educative teaching.
- Concept of Learning, Types of Learning.
- Relation between Teaching and Learning.
- Levels of Learning and Teaching: Memory, Understanding and retention.

Unit 2 – Teaching Effectiveness

- Concept of teaching effectiveness.
- Variables involved in teaching effectiveness.
- Techniques for teaching effectiveness.
- Assessment of teaching effectiveness.

Unit 3 – Teaching Strategies

- Concept of teaching strategies.
- Difference between Teaching Strategies and Teaching Tactics.
- Mastery learning, Personalized System of Instruction, PIM, CAI.
- Simulation and Gaming.

Unit 4 – Methods of Teaching

- Telling method, Lecture method.
- Discussion, Demonstration, Brain Storming.
- Assignment, Project method.
- Supervised study.

Unit 5 – Technological Aids in Teaching–Learning

- Teaching Aids: Nature, Characteristics, advantages and disadvantages and limitations.
- Projected and Non–Projected aids.
- Audio–Visual appliances.
- Computers and internet.

References

1. Aggarwal J.C. Essentials of Educational Technology, Vikas Publishing house, New Delhi.
2. Kumar K.L. (1996) Educational Technology, New Age International Pvt. Ltd
3. Kulkarni, S. S. (1986), Introduction to Educational Technology, New Delhi: Oxford–IBH Pub. Co
4. Mattoo, B. K., New Teaching Technology for Elementary School Teachers, New Delhi: Federation of Management of Educational Institutions.
5. Murunalini, T. (1997), Education and Electronic Media, New Delhi: ABH Publishing Corporation.
6. Sharma, R. A. (2001), Technological Foundations of Education, Meerut: R. Lal Book Depot.

03ABA114.2

GUIDANCE AND COUNSELING

Course/Paper:03ABA114.2

ABA Year III

Objectives

To enable the students to

1. Understand the meaning of Guidance and Counseling.
2. Develop ability to assess students' strengths and weaknesses.
3. Understand the concept of mental health and hygiene.
4. Understand the qualities of an ideal counselor.

Unit 1 – The concept of Guidance

- Meaning, nature and scope of guidance.
- Philosophical, Psychological and Sociological bases of guidance.
- Need and importance of educational guidance services in schools.

Unit 2 – Vocational Guidance

- Purpose and functions of vocational guidance.
- Relation between educational and vocational guidance.
- Relation between vocational guidance and work education.

Unit 3 – Educational Guidance

- Basic data necessary for educational guidance.
- Knowledge about pupils' abilities, aptitudes and interests.
- Construction, administration and interpretations of Cumulative record cards, Individual inventories.

Unit 4 – The Concept of Counseling

- Meaning, nature and scope of Counseling.
- Different types of counseling.
- Various steps and techniques of Counseling.

Unit 5 – Mental Health

- Concept of Mental health and hygiene.
- Causes and symptoms of maladjustment.
- Adjustment Mechanisms.

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B “Teaching social studies in high schools”, Health & Co

Panjabi ,

Panjabi , I Paper

03ABA115.1

ਕੌਰਸ

1. ਗੁਰਮਤਿ ਅਤੇ ਸੁਫੀ ਕਾਵਿ, (ਸੇਪਾ.) ਪ੍ਰੋ. ਪਰਮਜੀਤ ਸਿੰਘ ਸਿੱਧੂ, ਪਬਲੀਕੇਸ਼ਨ ਬਿਊਰੋ, ਪੰਜਾਬ ਯੂਨੀਵਰਸਿਟੀ, ਚੰਡੀਗੜ੍ਹ
2. ਤਫ਼ਤੀਸ਼, ਮਿੱਤਰ ਸੋਨ ਮੀਤ, ਲਾਹੌਰ ਖ਼ੁੱਕ ਸ਼ਾਪ, ਲੁਧਿਆਣਾ
3. ਚੋਣਵੇਂ ਲੇਖ, ਪ੍ਰਿੰਸੀਪਲ ਤੇਜਾ ਸਿੰਘ, ਪੰਜਾਬੀ ਸਾਹਿਤ ਪ੍ਰਕਾਸ਼ਨ, ਅੰਮ੍ਰਿਤਸਰ।

ਯੂਨਿਟ ਅਤੇ ਥੀਮ

1. ਕਾਵਿ-ਸੰਗ੍ਰਹਿ ਵਿਚੋਂ ਪ੍ਰਸੰਗ ਸਹਿਤ ਵਿਆਖਿਆ (ਤਿੰਨ ਵਿਚੋਂ ਦੋ) 5 ਅੰਕ

Panjabi II Paper

03ABA115.2

ਯੂਨਿਟ ਅਤੇ ਥੀਮ

1. ਕਾਵਿ-ਸੰਗ੍ਰਹਿ ਵਿਚੋਂ ਨਿਰਧਾਰਤ ਕਵੀਆਂ ਦੇ ਜੀਵਨ, ਰਚਨਾ ਅਤੇ ਯੋਗਦਾਨ ਬਾਰੇ ਪ੍ਰਸ਼ਨ (ਤਿੰਨਾਂ 'ਚੋਂ ਇਕ)
2. ਲਗਭਗ 250 ਸ਼ਬਦਾਂ ਵਿਚ ਪੈਰਾ ਰਚਨਾ ਕਰਨੀ (ਚਾਰ ਵਿਚੋਂ ਇਕ)
3. ਗੁਰਮੁਖੀ ਲਿੱਪੀ ਦੀ ਮੁੱਢਲੀ ਜਾਣਕਾਰੀ ਨਾਲ ਸੰਬੰਧਤ ਪ੍ਰਸ਼ਨ (ਦੋ ਵਿਚੋਂ ਇਕ)
ਗੁਰਮੁਖੀ ਲਿੱਪੀ ਦਾ ਜਨਮ ਅਤੇ ਵਿਕਾਸ, ਨਾਮਕਰਣ, ਗੁਰਮੁਖੀ ਲਿੱਪੀ ਦੀ ਪੰਜਾਬੀ ਭਾਸ਼ਾ ਲਈ ਅਨੁਕੂਲਤਾ ਅਤੇ ਪ੍ਰਮੁੱਖ ਵਿਸ਼ੇਸ਼ਤਾਵਾਂ
4. ਅਖ਼ਬਾਰਾਂ ਲਈ ਪ੍ਰੈੱਸ ਨੋਟ ਤਿਆਰ ਕਰਨੇ

ਕਾਲਜ ਦੀਆਂ ਸਾਹਿਤਕ, ਸਭਿਆਚਾਰਕ, ਖੇਡ ਅਤੇ ਅਕਾਦਮਿਕ ਖੇਤਰ ਨਾਲ ਸੰਬੰਧਤ ਸਰਗਰਮੀਆਂ
ਬਾਰੇ (ਲਗਭਗ 200 ਸ਼ਬਦਾਂ ਵਿੱਚ)

(ਸਿਰਫ ਇਕ ਪੇਂਸ ਨੋਟ ਹੀ ਤਿਆਰ ਕਰਨ ਲਈ ਕਿਹਾ ਜਾਵੇ)

5. ਕਾਵਿ-ਸੰਗ੍ਰਹਿ ਵਿੱਚੋਂ ਅੱਠ ਸ਼ਬਦਾਂ ਦੇ ਅਰਥ ਦੱਸੋ (ਦਸ ਵਿੱਚੋਂ ਅੱਠ)

6. (ੳ) ਬਹੁ-ਅਰਥਕ ਸ਼ਬਦਾਂ ਦੀ ਵਾਕਾਂ ਵਿੱਚ ਵਰਤੋਂ (ਛੇ ਵਿੱਚੋਂ ਚਾਰ)

(ਅ) ਸ਼ਬਦ-ਜੁੱਟਾਂ ਦੇ ਅਰਥਾਂ ਦਾ ਵਾਕਾਂ ਦੁਆਰਾ ਅੰਤਰ ਸਪਸ਼ਟ ਕਰਨਾ

(ਛੇ ਵਿੱਚੋਂ ਚਾਰ)

ਸਹਾਇਕ ਪੁਸਤਕਾਂ

1. **ਪੰਜਾਬੀ ਸੰਚਾਰ ਯੋਗਤਾ ਅਭਿਆਸ**, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ

2. **ਕਾਲਜ ਪੰਜਾਬੀ ਵਿਆਕਰਣ**, ਡਾ. ਹਰਕੀਰਤ ਸਿੰਘ ਤੇ ਗਿਆਨੀ ਲਾਲ ਸਿੰਘ, ਪੰਜਾਬ ਸਟੇਟ ਯੂਨੀਵਰਸਿਟੀ ਟੈਕਸਟ ਬੁੱਕ ਬੋਰਡ, ਚੰਡੀਗੜ੍ਹ