



Shri Mahaveer College

(Affiliated to the University of Rajasthan)
A Co-educational English Medium PG College

Cross-cutting Issues in Curriculum(2022-23)

Programme: Bachelor of Computer Application (BCA)			
Course Title with Course Code	Nature of Cross Cutting Issue	Year	Pg. No.
Web Application Development BCA-105	Professional Ethics	Part 1	10
Cloud Computing BCA - 205	Environment and Sustainability	Part 2	19-20
Network Security & Cryptography BCA – C02	Professional Ethics & Sensitiveness Human Values	Part 3	37-38
Programme : Bachelor in Arts (BA)			
Course Title with Course Code	Nature of Cross Cutting Issue	Year	Pg. No.
Environmental Studies	Environment and Sustainability	Part 1	7-9
Physical Geography	Professional Ethics	Part -1	85
Basic Psychological Processes	Professional Ethics	Part -1	96
Social Psychology	Professional Ethics	Part -1	97
Sociology Of Village	Professional Ethics	Part -2	53



Resources Geography	Gender Equity And Sensitiveness	Part -2	78
Human Geography	Professional Ethics	Part -2	78-79
Environmental Economics	Human Values Environment And Sustainability	Part -3	84-85
Programme with Programme Code: BBA Part 1			
Course Title with Course Code	Nature of Cross Cutting Issue	Year	Pg. No.
Legal Aspects of Indian Business	Professional Ethics & Human Values	Part 1	5
Organizational Behaviour	Gender Equity And Sensitiveness	Part -3	18
Indian Management Thought & Business Leader	Professional Ethics	Part -3	19
International Business	Professional Ethics	Part -3	20
E-Commerce	Professional Ethics	Part -3	22

Programme B-Com Part 1			
Course Title with Course Code	Nature of Cross Cutting Issue	Module	Pg. No.
Compulsory Paper of Environmental Studies	Gender Equity and Sensitiveness	Part -1	8-10
Programme B-Com Pass Course Part -2			
Course Title with Course Code	Nature of Cross Cutting Issue	Module	Pg. No.
Management	Gender Equity And Sensitiveness	Part -2	9
Programme B-Com Pass Course Part -3 (ABST)			
Cost & Management	Human Values Environment And Sustainability	Part -3	9
Programme B-Com Pass Course Part 1 (HONS)			
Compulsory Paper of Environmental Studies	Professional Ethics	Part -1	8-10
Economic Environment In Rajasthan	Human Values Environment AndSustainability	Part – 1	9

Programme B-Com Part -3 (HONS)			
Course Title with Course Code	Nature of Cross Cutting Issue	Module	Details
Cost & Management Audit	Professional Ethics & Environment And Sustainability	Part -3	7
Programme B-Com Part -1			
Elementary Computer Applications	Professional Ethics & Environment And Sustainability	Part -1	12-13

BCA 1st year

BCA-105 : Web Application Development

Question Paper pattern for Main University Examination

Max Marks: 100

Part – I (very short answer) consists 10 questions of two marks each with two questions from each unit. Maximum limit for each question is up to 40 words.

Part – II (short answer) consists 5 questions of four marks each with one question from each unit. Maximum limit for each question is up to 80 words.

Part – III (Long answer) consists 5 questions of twelve marks each with one question from each unit with internal choice.

Unit – I

The Internet – Basic of internet, file transfer, telnet, usenet, gopher, wais, Archie and veronica. Introduction to Internet Protocols-, HTTP, FTP, SMTP protocols.

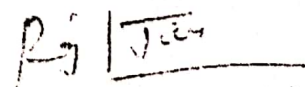
World Wide Web : Elements of the Web, Web browser and its architecture, The web server, the proxy server, Microsoft internet explorer, viewing pages with a browser, using a browser for Mail, News and chat, Security and Privacy issues (cookies, firewalls, Data Security, executable Applets and scripts, blocking system).

Unit – II

HTML Fundamentals: Introduction to HTML, HTML Elements, HTML Semantics, HTML 5 Doc Types, New Structure Tags, Section, Nav, Article, Aside, Header, Footer, HTML Attributes, Headings, Paragraphs, Styles, Quotations, Blocks, Classes, Layout, Iframes, Creating HTML Pages, incorporating Horizontal Rules and Graphical Elements, Hyper-links, Creating HTML Tables, Creating HTML Forms, HTML and Image Techniques, HTML and Page, Development of Website and Webpage (Planning, Navigation and Themes, Elements of a Web page, steps of creating a site, publishing and publicizing site structuring web site).

Unit-III

Cascading Style Sheets: Understanding Style Sheets, CSS Syntax and Applying Style Sheets to HTML document, Developing Style Sheets: inline, internal and external. CSS Selectors, <DIV> tag, Using class and ID, Styling Backgrounds, Styling borders, Styling Text, Styling Fonts, Styling Links, Styling Lists, Styling Tables, Margin, Flex and Grids. **Bootstrap & Web page design** : CMS, Banks of CMS, Joomla/wordpress-Installation, Design and development of websites.


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BCA-205: Cloud Computing

Question Paper pattern for Main University Examination

Max Marks: 100

Part – I (very short answer) consists 10 questions of two marks each with two questions from each unit. Maximum limit for each question is up to 40 words.

Part – II (short answer) consists 5 questions of four marks each with one question from each unit. Maximum limit for each question is up to 80 words.

Part – III (Long answer) consists 5 questions of twelve marks each with one question from each unit with internal choice.

Unit-I

Introduction of Cloud Computing: Definition, Historical Developments, Enabling Technology, Vision, Essential Characteristics of Cloud Computing, Components of Cloud Computing. Challenges and Approaches of Migration into Cloud, Cloud Applications: Applications – Health care, CRM and ERP, Social Networking, Media Applications and Multiplayer Online Gaming. Benefits: For the Market, Enterprise, End user and Individuals.

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Unit-II

Cloud Computing Architecture : Introduction, Cloud Reference Model, Architecture. Infrastructure / Hardware as a Service, Platform as a Service, Software as a Service. Types of Clouds, Public Clouds, Private Clouds, Hybrid Clouds, Community Clouds. Economics of the Cloud, Open Challenges. **Cloud Interoperability and Standards. Scalability and Fault Tolerance.** Parallel and distributed Computing-MapReduce. Hadoop. High level Language for Cloud, Service Oriented Computing.

Unit-III

Virtualization: Introduction, Characteristics of Virtualized Environment. Taxonomy of Virtualization Techniques, Virtualization and Cloud computing, Virtualization: of CPU, Memory, I/O Devices, Server , Desktop, Network, and data-center. Pros and Cons of Virtualization, Technology Examples- VMware and Microsoft Hyper-V, KVM, Xen.

Unit-IV

Introduction of Cloud security services, Design Principles. Policy Implementation. Cloud Computing Security Challenges, Cloud Computing Security Architecture. Cloud Security Tools and technologies to secure the data in Private and Public Cloud Architecture. Security Concerns, Legal issues and Aspects, Multi-tenancy issues. **Risk area of Cloud computing, Data Security in Cloud:** Risk Mitigation, Understanding and Identification of Threats in Cloud, SLA-Service Level Agreements, Trust Management.

Unit-V

Cloud Platforms in Industry: Amazon Web Services- Compute Services, Storage Services, Communication Services and Additional Services. Google AppEngine- Architecture and Core Concepts. **Application Life-Cycle,** cost model. Microsoft Azure- Azure Core Concepts, SQL Azure. Integration of Private and Public Clouds Cloud applications: Protein structure prediction, Data Analysis, Satellite Image Processing. CRM and ERP, **Social networking.**

Recommended Books:

1. Cloud Computing ,Principle and Paradigms, Edited By RajkumarBuyya, JamesBroberg, A. Goscinski, Pub.- Wiley-2016
2. Kumar Saurabh, "Cloud Computing", Wiley Pub 2016
3. Mastering Cloud Computing by Rajkumar Buyya, Christian Vecchiola, S.Thamarai Selvi from TMH 2013.
4. Distributed and Cloud Computing, Kai Hawang , GeoffreyC.Fox, Jack J. Dongarra Pub: Elsevier, 2013
5. Krutz , Vines, "Cloud Security " , Wiley Pub,2010
6. Velte, "Cloud Computing- A Practical Approach" ,TMH Pub,2009
7. Katarina Stanoevska-Slabeva, Thomas Wozniak, SantiRistol, "Grid and Cloud Computing - A Business Perspective on Technology and Applications", Springer,2010

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- 2 Data Mining – Concepts and Techniques- JIA WEI HAN & MICHELINE KAMBER Hareourt India.
- 2 Data Warehousing ; Reema Thareja; Oxford
- 1 Data Mining Introductory and advanced topics MARGARET H DUNHAM PEARSON EDUCATION.
- 2 Data Warehousing in Real World Anahory, Pearson Education.
- 2 Data Mining Techniques- ARUN K PUJARI, University Press.
- 2 Bulding the Data Warehouse- W. H. Inmon, 3rd Edition, Wiley, 2003.
- 2 Data Warehousing Fundamentals- PAULRAJ PONNAIAH WILLEY STUDENT EDN.

BCA C02: Network Security & Cryptography

Question Paper pattern for Main University Examination

Max Marks: 100

Part – I (very short answer) consists 10 questions of two marks each with two questions from each unit. Maximum limit for each question is up to 40 words.

Part – II (short answer) consists 5 questions of four marks each with one question from each unit. Maximum limit for each question is up to 80 words.

Part – III (Long answer) consists 5 questions of twelve marks each with one question from each unit with internal choice.

Unit – I

Introduction to Security Attacks : Cryptography, Security Attacks, Security Services and Mechanism.

Classical Encryption Techniques : Classical Techniques, Conventional Encryption Model. Classical Encryption Techniques.

Unit - II

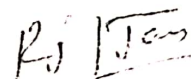
Modern Techniques: Simplified DES, Block Ciphers Principles, DES Standards. DES Strength, Differential & Linear Cryptanalysis, Block Cipher Design Principles. Block cipher Modes of Operation.

Conventional Encryption Algorithms: Triples DES, International Data Encryption Algorithm, RC5, RC2 placement & Encryption Function, Key Distribution. Random Number generation, Placement of Encryption Function.

Unit - III

Public Key Encryption: Public Key Cryptography: Principle of public key Cryptosystems. RSA algorithm, Key Management, Fermat's Theorem & Euler's Theorem.

Message Authentication & Hash Function: Authentication Requirements. Authentication Function, Message Authentication Codes, Hash Function, Birthday Attacks, Security of Hash Function & MAC's, MD5 Message Digest algorithm. Secure Hash Algorithm(SHA).


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Unit - IV

Digital Signatures: RSA Based, ElGamal Signatures, Undeniable Signatures.
Authentication: Model of Authentication Systems, Impersonation, Substitution and spoofing games, Authentication schemes for mutual authentication based on shared secret, two-way public key, one-way public key, Mediated Authentication. One way Authentication.

Unit - V

Network and System Security: Authentication Application- Kerberos x.509, Dictionary Authentication Services, **Electronic Mail Security**, Pretty Good Privacy (PGP), S/mime.
Security: Architecture, Authentication Header, Encapsulation security payloads, combining security association, Key Management.

Web Security: Secure socket layer & Transport layer security. **Secure electronic transaction (SET)**. System Security: Intruders, viruses, firewall Design principle, Trusted Systems.

Reference Books:

1. William Stallings; Cryptography and Network Security, Fifth Edn, Pearson.2006;
2. Kaufman Charlie et.al; Network Security: Private Communication in a Public World, 2nd Ed.,PHI/Pearson.
3. Atul Kahate; Cryptography and network Security; Tata McgrawHill.
4. V.K. Pachghare; Cryptography and Information Security; PHI.
5. Matt Bishop, Sathyanarayana; Introduction to Computer Security;Pearson.

3. ENVIRONMENTAL STUDIES

B.A. Part-I

Scheme of examination

Time	Min Marks	Max.Marks
3 hrs	36	100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark. Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.

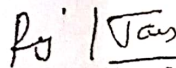
Unit.1: The Multidisciplinary nature of environmental studies

Definition, scope and importance- Relationship between Environmental Studies and other branches of science and social sciences.

Need for Environmental awareness, Environmental education in present day context.

Unit.2: Natural Resources and Challenges

- a. Natural resources and associated problems, Classification of resources: renewable resources, non renewable resources, classes of earth resources, resources regions: Definition and criteria, resource conservation.
- b. Forest resources: Use and over- exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.
- c. Water resources: Use and over-utilization of surface and groundwater, floods, drought conflicts over water, dams-benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, case studies.
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies.
- g. Land resources: Land as a resource, Land degradation man induced Landslides, soil erosion and desertification.


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- Role of an individual in conservation of natural resources.
- Equitable use of resources for sustainable lifestyles.

Unit 3: Ecosystems, Concepts, Structure, Functions and Types

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
 - c. Desert ecosystem with emphasis on Thar Desert
 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands

Unit 4: Biodiversity and its conservation

- Introduction –Definition, genetic, species and ecosystem diversity
- Biogeographically classification of India
- Value of biodiversity :consumptive use, productive use, social ethical., aestheti and option values
- Biodiversity at global, National and local level
- India as a mega-diversity nation
- Hot-spot of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflict
- Endangered, Threatened and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
- Red Data Book

Unit 5 : Environmental Pollution and Control Measures

Definition

- Causes, effects and control measures of:
 - a) Air Pollution
 - b) Water Pollution
 - c) Soil Pollution
 - d) Marine Pollution

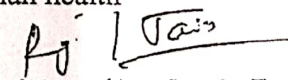
- e) Noise Pollution
- f) Thermal Pollution
- g) Nuclear Hazards
 - Solid waste management Causes, effects and control measures of urban and industrial wastes
 - Role of an individual in prevention of pollution
 - Pollution case studies
 - Disaster management: floods earthquake, cyclone and landslides

Unit 6 : **Social issues, Environment, Laws and Sustainability**

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies
- Environmental ethics: Issues and possible solution.
- Climate change, global warming, acid rain ozone layer depletion, nuclear accidents and holocaust. Case studies
- Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection Act.
- Air (Prevention and Control of Pollution) Act
- Wild life protection Act
- Forest Conservation Act
- Biological Diversity Act
- Issues involved in enforcement of environmental legislation
- Public Awareness.

Unit 7: **Human Population and the Environment**

- Population growth, variation among nations
- Population explosion-Family Welfare Programme
- Environment and Human health
- Human Rights
- Value Education
- HIV/AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and human health
- Case Studies


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Paper I: Physical Geography

Section A

Definition, scope and development of physical geography, geological history of the Earth; zoning of Earth's interior, rocks, origin of continents and oceans; continental drift theory and plate tectonics; concept of isostasy; views of Airy, Pratt, Joly and Holmes. Earth movements: epirogenic and orogenic; mountain building theories: Kober, Jeffreys, Daly, Joly and Holmes and plate tectonics; denudation, cycle of erosion: views of W.M. Davis and W. Penck, erosional and depositional topographies: river, under ground water, glacier, wind and oceanic waves.

Section B

Composition and structure of the atmosphere, insolation, air temperature, air pressure, pressure belts and planetary winds, monsoon and local winds, humidity, classification of clouds and precipitation, air masses, fronts and cyclones; tropical and temperate, classification of the world climates: Koppen and Thornthwaite, general climatic classification.

Section C

Surface configuration of oceans bottom: Pacific, Atlantic and Indian oceans, ocean deposits, horizontal and vertical temperature of oceans, oceanic salinity, tides, oceanic waves and currents, coral reefs and their origin; views of Darwin and Dana; W.M. Davis, Murray, classification of marine resources, biosphere and its components, ecosystems, plant community and animal kingdom, biomes: equatorial rainforest, monsoon, savanna and temperate grasslands.

Recommended Readings:

- मोहन, वी.एस. वी. गोसा, ए. 2005, भौतिक भूगोल (जीवमण्डल सहित)। रस्तोगी पब्लिकेशन्स देरत।
 वात, पी. 2012, भौतिक भूगोल। राजेश पब्लिकेशन्स, नई दिल्ली।
 गोसा, अजय 2012, भौतिक भूगोल। रस्तोगी पब्लिकेशन्स, देरत।
 lusain, M. 2001, Fundamentals of Physical Geography, Rawat Publication, Jaipur.
 'oss, D. 2012: Physical Geography : A Landscape Appreciation. PHI Learning Private imited, New Delhi, Mcknight's Tenth Edition.
 hullar, D.R. 2012: Physical Geography. Kalyani Publishers, New Delhi
 ड. सचिन्द्र, 2005 : भू-आकृति विज्ञान। तारा पब्लिकेशन्स वाराणसी।
 ड, सचिन्द्र, 2011 भौतिक भूगोल का स्वरूप। प्रथम प्रकाशक भवन, इलाहाबाद।
 एमएस, शर्मा एम एल एण्ड मिश्रा, अरुण 2004 भौतिक भूगोल। पब्लिशिंग प्रकाशन जयपुर।
 jenna, R. and Vard M. 1999 Oceanography, for Geographers. Chaitanya Publishing use, Allahabad.

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SCIENCE			
Section	No. of Questions	Marks	Total
A	10	01	10
B	5 (Out of 7)	02	1
C	3 (With internal choice)	10	45
Total Marks			75

Paper I - Basic Psychological Processes

Section-A

1. Introduction: Definition and Goals of Psychology; History- Structuralism, Functionalism, Behaviorism, Gestalt and Psychoanalysis; Modern Perspectives- Biological, Psychodynamic, Behavioral, Cognitive, Humanistic, Evolutionary and Socio-cultural; Methods- Observation, Case Study, Surveys and Experimental.
2. Biological Basis of Behavior: The Nervous System-Structure and Functions of Neuron. Structure and Functions of Central Nervous System and Peripheral Nervous System
3. Sensation and Perception: Sensation- Meaning, Sensory Receptors, Sensory Thresholds, Habituation and Sensory Adaptation. Perception- Meaning, Constancies- Size, Shape and Brightness, Gestalt Principles, Factors Influencing Perception.

Section-B

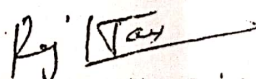
4. Learning: Definition and Theories- Classical Conditioning, Operant Conditioning, Cognitive Learning, Observational Learning.
5. Memory: Definition; Encoding, Storage and Retrieval Processes; Models- Level of Processing, Parallel Distributed Processing and Information Processing- Sensory, Short Term and Long Term Memory; Forgetting- Nature and Causes.
6. Motivation and Emotion: Motivation - Meaning and Approaches- Instinct, Drive-reduction, Arousal, Incentive and Humanistic. Emotion- Elements: Physiology, Expression and Subjective Experience; Theories- Cannon-Bard, James-Lange, Schachter-Singer, Opponent-Process.

Section-C

7. Cognition: Thinking- Mental Imagery and Concepts; Problem Solving- Trial and Error, Algorithms, Heuristics, Insight; Barriers to Problem Solving.
8. Intelligence: Definition and Theories- Spearman, Guilford, Cattell, Sternberg, Gardner; Meaning of IQ; Intelligence Tests.
9. Personality: Definition; Type Theories and Trait Theories - Allport, Cattell, McCrae and Costa; Personality Assessment- Self-report Inventories, Projective Tests and Behavioural Assessments.

Books Recommended:

- Baron, R.A. & Misra, G. (2015). *Psychology*. New Delhi: Pearson Education India.


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- Gerrig, R.J., Zimbardo, P.G., Svartol, F., Brennen, T., Donaldson, R. & Archer, T. (2013). *Psychology and Life*. New Delhi: Pearson Education India.
- Ciccarelli, S.K., White, J. N. & Misra, G. (2017). *Psychology*. New Delhi: Pearson Education India.
- सिंह. अरुणकुमार (2017), आधुनिकसामान्यमनोविज्ञान, नई दिल्ली : मोतीलालबनारसीदास।

Paper II - Social Psychology

Section-A

1. Introduction: Meaning, Nature, **Scope and Goals of Social Psychology**. Methods of Social Psychology: Experimental and Non-Experimental Methods.
2. **Social Perception and Person Perception**: Social Perception- Meaning and Nature; Perceptual Defense, Perceptual Accentuation and Subliminal Perception. Person Perception: Meaning and Nature, Role of Non-verbal Cues; Perceivers' Characteristics and Role of Ongoing Interaction.
3. **Attitudes**: Nature, Functions, Formation, Change and Measurement.

Section-B

4. Prejudice and Discrimination: Nature and Origin; Reduction of Prejudice and Discrimination.
5. Interpersonal Attraction: Proximity and Affective basis, Acquaintance and Need to Affiliate; Effects of Observable Characteristics, Similarity and Mutual liking.
6. Leadership: Definition and Functions; Types of Leadership. Trait, Situational and Contingency Approaches.

Section-C

7. Communication: Meaning, Nature and Types: Verbal and Non-verbal; Barriers in Communication.
8. **Pro-Social Behavior**: Personal, Situational and Socio-Cultural Determinants. Explaining Pro-
Social Behavior: Empathy, Altruism Hypothesis, Negative-State Relief Model, Emphatic-Joy Hypothesis and Genetic-Determinism Model.
9. **Aggression and Social Problems**: Aggression- Theories, Determinants, Prevention and Control; Social Problems –Meaning and Nature; Types of Social Problems - Poverty, Deprivation, Population Explosion, Economic Development; Solutions to Social Problems.

Books Recommended :

- Baron, R.A., Branscombe, N.R., Byrne, D. & Bhardwaj, G. (2012). *Fundamentals of Social Psychology*, Noida: Dorling Kindersley South Asia.
- Branscombe, N.R. & Baron, R.A. (2018). *Social Psychology*. Noida :Pearson India Education.
- Myers, D.G. (1994). *Exploring Social Psychology*. New York: McGraw Hill
- अरुणकुमारसिंह, (2002), समाजमनोविज्ञानकीरूपरेखा, मोतीलालबनारसीदास, दिल्ली

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Unit 1: Introduction to Rural Sociology

- **Concept of Rural Sociology & Its Development**
- Basic Concepts : Village, Peasant Society, Agrarian Structure, Little, Great & Multiple traditions, Rural-Urban Continuum
- Features of Economy & Polity in relation to village

Unit 2: Social Structure of Village

- **Family, Caste, Kinship and Gender**
- Religion and Village Life
- Formal and Informal Administrative Structures : Village Panchayats, Caste Panchayat

Unit 3: Change in Indian Village Structure

- Agrarian Distress in Villages : Suicide, Indebtedness, Poverty
- Agrarian Movement in India
- Impact of Urbanization & Globalization in Village Systems

Essential Readings: (in English) :

1. Desai A.R., 1959: Rural Sociology India, Popular Prakashan, Bombay.
2. Rao M.S.A., 1874: Urban Sociology in India, Orient Longman, New Delhi.
3. Desai A.R., 1979: Rural Sociology .India in Transition, Popular Prakashan, Bombay.
4. D'Souza Alfred, 1978: The Indian City, Poverty, Ecology and Urban Development, Manohar Publication, New Delhi.
5. Ramkrishana Mukarjee, 1957: The Dynamics of Rural Society, Berlin.

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Paper I: Resources Geography

Section A

Nature, scope and significance of resources geography, definition and classification of resources: renewable and non renewable resources, resource classification of Zimmerman. Natural Resources: Distribution, exploitation, uses and conservation of forest, water, soils, fisheries, mineral resources, energy resources (coal, petroleum, natural gas and non-conventional energy resources).

Section B

Human resources: Population growth, distribution and density, causes of inequalities, population-resources relationship and problems, Agricultural resources: fisheries and cereal crops: rice, wheat, maize and barley; beverages: tea, coffee and tobacco, commercial crops: cotton, rubber, jute, sugarcane, silk and artificial fibres. Agricultural regions of the world.

Section C

Concepts of Resources utilization, their conservation. environmental and cultural constraints in resource utilization, water conservation and rainwater harvesting, soil and forest resources conservation, land capability classes, resources regions of the world, resources regions of the India, economic regions of the India, sustainable development.

Recommended Readings:

- Alexander, E.W. 1988: Economic Geography. Prentice Hall India, New Delhi.
 Bunting B.C., 1987: The Geography of Soil. Prentice hall; New York.
 कौशिक, एस.डी. 2010: संसाधन भूगोल। रस्तोगी पब्लिकेशन्स, नैरठ।
 माथुर, बी. 1998: संसाधन भूगोल। रस्तोगी प्रकाशन, नैरठ।
 Mitchell, Bruce. 1979: Geography and Resource Analysis. Longmans, London.
 Park, C.C. 2001: The Environment-Principles and applications. Routledge, London.
 Robinson, G.W. 1932 : Soils, their Origin, Constitution and Classification. London.
 Shafi, M. 2004: Agricultural Geography. Pearson India.

Paper II: Human Geography

Section A

Definition, aims and scope of human geography, relation of human geography with other social sciences. Principles of human geography, essential facts of human geography

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according to Brunhes and Huntington, schools of man-environment relations: determinism, possibilism and neo determinism

Section B

Human races: evolution and migration, zone-strata theory, classification of races: types, characteristics and distribution. human races in India, tribes of the world: eskimos, bushman, pigmy, masai, badduien and khirgiz; tribes in India: bhils, nagas, santhal, gond, gujjar of Jammu and Kashmir and toda. Population growth and theories, distribution and density of world population.

Section C

Migration of population: causes, types and impact: population regions and population policies in India. Rural settlements: factors affecting development of rural settlement, types and patterns of rural settlements, building materials and house types, urban settlements: process of urbanization, urban problems in India, **impact of human activities on environment.**

Recommended Readings:

- Chandna, R.C. 2000: Geography of Population. Kalyani Publishers; New Delhi.
 Dohrs, F.E. and Sumners, L.W. (eds.) 1967: Introduction to Geography. Thomas Crowell Co., New York.
 Dear, M.J. and Flusty, S. (ed.) 2002: The spaces of Post modernity, Readings in Human Geography. Blackwell Publishers Ltd., Oxford.
 Fellmen, Getis and Getis, J. 1998: Human Geography-Landscape of human activities. Longman, London.
 Husain, M. 2012: Human Geography. Rawat Publications, Jaipur.
 हारुन, एम. 2006: संसाधन भूगोल। वसुन्धरा प्रकाशन, योरखपुर।
 Leong, G.C. and Morgan, E.C. 1982: Human and Economic Geography. Oxford University Press, Oxford 2nd Edition.
 कौशिक, एस.डी. 2012: मानव भूगोल। रस्तोगी पब्लिकेशन्स, मेरठ।
 मोर्य, एस.डी. 2005: जनसंख्या भूगोल। शारदा पुस्तक भवन, एलाहाबाद।
 पण्डा, वी.पी. 2001: जनसंख्या भूगोल। मध्यप्रदेश हिन्दी ग्रन्थ अकादमी, भोपाल।
 राव, वी.पी. एवं श्रीवास्तव, वी.के. 2006: मानव भूगोल। वसुन्धरा प्रकाशन, जयपुर।
 Singh, R.L. 2005: Fundamentals of Human Geography, Sharda Pustak Bhawan, Allahabad.

Practicals

Scheme of examination

Min. Pass Marks: 18

Max. Marks: 50

	Bifurcation of Marks	Time
Written test	24	3 hrs.
Field survey and viva voce	(10+0)	2 1/2 hrs.
Record and viva voce	(08+0)	

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Income Elasticity, Elasticity Relation in demand Analysis, Slutsky Equation in two Commodity Case, Elasticity Form and Important Results: Income and Leisure – Derivation of Labour Supply Function and its Properties.

Section –B

Theory of firm: Production Function- Properties of a Well Behaved and Homogenous Production Functions- Cobb- Douglas and CES Production Functions: Product Curves: Output Elasticity of Factor input; Properties of an Isoquant; Elasticity of Substitution of a Homogeneous Production Function –Linearly Homogeneous and Cobb-Douglas Production Functions : Optimization Behaviour of a Firm – Constrained Cost Minimization, Constrained Output Maximization and Profit Maximization; Input Demand Functions Properties and Derivation of Producer's Input Demand functions ; Cost Functions- Properties and Derivation of Short Run and Long Run Cost functions; Consumer's and Producer's Surplus.

Section-C

Linear Programming: Graphical and Simplex Method (Maximization Problem Only): Input Output Analysis: Concepts of Static, Dynamic, Closed and Open Input – Output Models, Hawkins-Simon Conditions of Viability, Determination of Gross Output, and Value Added in Open Input –Output Model; Theory of Games: Two-person Constant Sum Games, Zero-Sum Game, Maximin and Minimax, Dominant Strategies and Saddle Point Solution; First Order Difference Equation- Cobweb Model.

Note: Use of Non-programmable Calculator is permitted

Books Recommended :

1. J.M. Henderson and R.L. Quandt: Micro Economic Theory: A Mathematical Approach, McGraw- Hill London.
2. RGD Allen. Mathematical Economics, McMillan
3. B.C. Mehta: Mathematical Economics; Micro Economic Models, Sultan Chand & Sons, New Delhi.
4. Alpha C Chiang: Fundamental Methods of Mathematical Economics. McGraw-Hill, Kagakusha. Tokyo.

• OR

Paper- II (b): Environmental Economics

Section –A

Environmental Economics: An Introduction; Review of Microeconomics and Welfare Economics; The Theory of Externalities: Pareto Optimality and Market Failure in the Presence of Externalities; Property Rights and the Coase Theorem; Sustainable Development: Concepts and Measurement.

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Section-B

Development and Environment: The Environment Kuznets Curve; Trade and Environment; Environmental Problems; Trans-boundary Environmental Problems: Global Warming and Climate Change; Methods of Environment Valuation: Hedonic Pricing, Contingent Valuation Method and Travel Cost Method.

Section-C

International Environmental Policy: Conventions and Treaties, UN Effort to Protect the Environment, Stockholm, Rio, Johansberg, Agenda 21, OECD Environmental Committee Report, Kyoto, Convention on Biodiversity, Paris Climatic Conventions; Environmental Governance in India; WTO and Environment.

Recommended Books:

1. Charles Kolstad, Intermediate Environmental Economics, Oxford University Press. 2nd Edition, 2010
2. Robert N. Stavins (ed.), Economics of the Environment: selected Readings, W.W.Norton, 5th edition, 2005.
3. Roger Perman, Yue Ma, James McGilvray and Michael Common, Natural Resource and Environmental Economics, Pearson Education/ Addison Wesley, 3rd edition, 2003.
4. Maureen L. Cropper and Wallace E. Oates, 1992, "Environmental Economics: A Survey", Journal of Economic Literature, Volume 30, pp. 675-740.

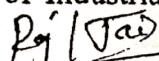
Paper-II (C): Economy of Rajasthan

Section-A

Position of Rajasthan in Indian Economy: Population, Area, Agriculture, Industry and Infrastructure. Population: Size and Growth, District Wise Distribution of Rural and Urban Population, Demographic Features, Occupational Structure and Human Resource Development (Literacy, Health and Nutrition Indicators). Natural Resources Endowments: Land, Water, Livestock and Wild Life, Minerals and Mineral Policy of the State. State Domestic Product: trends and Composition. Agriculture: land Reforms, Land Utilization, Cropping Pattern, Production and Productivity, Agriculture Finance, Marketing and Insurance, Importance of Livestock and Animal Husbandry, Dairy Development Programmes, Famines and Droughts in Rajasthan.

Section-B

Infrastructure in the State (Irrigation, Power, Road), Industrial Development of the State (Agricultural and Mineral Based Industries, Small Scale and Cottage Industries, Export Based Units, Rajasthan Handicrafts). Growth Centres and Development of Industrial areas.


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Paper-III: Legal Aspects of Indian Business

Scheme: Maximum Marks: 100

3 hours duration

Minimum Pass Marks: 36

Unit-I

Law of contract: Nature of contract, Classifications, Offer and Acceptance, Capacity to contract, Free Consent, Consideration, Legality of object, Agreement declared void, Performance of Contract, Discharge of Contract, Remedies for breach of contract.

Unit-II

Special Contract: Indemnity, Guarantee, Agency.

Unit-III

Sale of Goods Act: Formation of Contract of sale, Goods and their classification, price conditions & warranties, Passing of property in goods, Performance of contract of sale, Unpaid seller, sale by auction.

Unit-IV

Negotiable Instruments Act: Definition of Negotiable Instruments, Features, Promissory note, Bill of Exchange & cheque, Holder & Holder in due course, Crossing of cheque, Types of crossing, Dishonours of cheque.

Unit-V

Indian Companies Act: Meaning & Nature of company, Lifting of Corporate veil: Functions, Duties, Liabilities and Right of Promoters: Procedure of Registration: Contents and alteration of Memorandum and Articles of Association, Prospectus, Statement in lieu of Prospectus.

Directors: Power and Duties, Appointment and Removal of Directors, Appointment and Role of company secretary

Books recommended:

- 1 Avtar Singh—Company Law (Eastern Books Co. Lucknow)
- 2 Gulshan and Kapoor—Business Law.
- 3 Avtar Singh--- Mercantile Law (Eastern Books Co. Lucknow)
- 4 M.J Matthew--- Commercial Law (RBSA, Jaipur)
- 5 M>J Matthew—Company Law (RBSA, Jaipur)
- 6 Majumdar and Kapoor—Company Law and Practice (Taxman New Delhi)



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Paper-IOrganizational Behaviour

Unit I :

Meaning and Concept of Organization Behaviour, Role of OB in Today's Business organization, Challenges and Opportunities, Theories of Organization Behaviour, Social Systems and Organizational Culture.

Unit II :

Perception, Nature, Importance, Difference between Sensation and Perception; Personality: Meaning, Determinants of Personality, Personality Traits and Types, Values attitudes and Job Satisfaction.

Unit III :

Interpersonal Behaviour, Group Dynamics- Meaning, Norms and Role, Theories of Group, Cohesiveness, Dynamics of Informal Group, Team and Team building.

Unit IV :

Definitions of Conflict, Process, Negotiations Process, Individual differences in negotiation effectiveness, Causes of Stress and its effects, Stress and Conflict Management.

Unit V :

Meaning, Nature and factors of Organizational Change, Planned Change, Resistance to Change. Change Agent, Concept of Organizational Development, Organizational Development Interventions.

Books Recommended :

1. Prasad, L.M., Organizational Behaviour, S. Chand, New Delhi
2. Robbins, Stephen P., Organizational Behaviour: Concept, Controversies, Applications, Prentice Hall of India, Pvt. Ltd. New Delhi
3. Luthans Fred, Organizational Behaviour, McGraw-Hill
4. Dr. P. S. S. Kumar, Dr. Anukriti Sharma and K. S. Krishna, Organizational Behaviour, Jaharvi Publications.
5. Prof. Anil Mehta, Organizational Behaviour, RRD, Jaipur
6. Organizational Behaviour, Thakur Publication, Jaipur

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Paper- IIIndian Management Thought and Business LeadersUnit- I

Spirituality and Management- Concept of Spirituality, **Indian Ethos** and Values, Role of Values in Management, Western Values vis a vis Indian Values, Applications of Yoga in Management- Personality Development, Meditation and Management of stress.

Unit- II

Indian Epics and Management- Dimensions of Vedic Management, Bhagwad Gita, Ramayan, Kautilaya's Arthshastra.

Unit- III

Indian Thinkers- Swami Vivekanand, Mahatama Gandhi, S.K. Chakraborty, C.K. Prahlad.

Unit- IV

Indian Business Leaders: JRD Tata, Ram Krishan Bajaj, G D Birla, Dhirubhai Ambani.

Unit- V

Indian Business Leaders: Narayana Murthy, Azim Premji, Lakshmi Mittal, Sunil Bharti Mittal.

Books Recommended

1. Chakraborty, S.K. and Bhattachary., Pradip: Human Values, New Age International (P) Limited Publishers.
2. Saneey, Rinku and Khaana, Parul: Ethics and Values in Business Management, Ane Books Pvt. Ltd.
3. Khaana, S. : Vedic Management, Taxman Publications (P) Ltd.
4. Bhawad Gita as Viewed by Swami Viveka, anda: Vedanta Press & Bookshop.
5. Rajgopalachari, C. : Ramayan, Bhartiya V-dya Bhawan.
6. Gita Piramal: Business Legends.

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Paper IIIInternational Business

Unit I

Meaning of International Business, Domestic Business V/s International Business, Importance of International business, Major participants of IB, Scope of International Business.

Unit II

Understanding the International Business Environment: Cultural Environment, Economic Environment, Political Environment, Legal & financial Environment.

Unit III

International Business organisations, Forms of International organisations, World Trade Organisation (WTO).

Unit IV

International Financial Management, International Monetary Fund (IMF), World Bank.

Unit V

Global Operations and Supply Chain Management, International Human Resource Management, International Trade Procedure and Documentation, Global E-business, Ethics and Social Responsibility.

Books Recommended

1. Joshi, R.M.: International Business, Oxford University Press, New Delhi.
2. Aswathappa, K.: International Business, Tata McGraw-Hill Publishing Company Limited, New Delhi.
3. Cherunilam, Francis: International Business Environment, Himalays Publishing House, New Delhi.

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Paper V

E-Commerce

Unit I :

Meaning, Characteristics, Origin, Process, Key Drivers of E-Commerce, Elements, Traditional Commerce Vs E-Commerce, Benefits, Standards, Technologies, E-Commerce Models, Mobile Commerce, Barriers to E-Commerce.

Unit II :

Internet and E-Commerce, Networking-LAN, WAN, Business Uses of Internet, www, Protocols, Intranet and Internet, Multimedia Application, Hardware and Software.

Unit III :

Electronic Payment Systems- Methods, Security Issues, Electronic Banking, Electronic Stock Trading.

Unit IV :


Data Warehousing, Client-Server Computing, Data Mining, Website Management – Steps.

Unit V :

ERP – Meaning, Functions, SAP Applications, Business Intelligences, Ethics, Security and E-Governance.

Books Recommended:

1. E-Commerce and E-Business : Dr. C.S. Rayudu, Himalaya Publishing House.
2. Information Technology : E-Commerce & E-Business : V.D. Dudeja, Commonwealth Publisher, New Delhi
3. Electronic Consumer Framework- Technologies and Applications: B. Bhasker, Tata McGraw-Hill
4. Electronic Commerce : A Managers Guide to E-Business: Parag Dewan and Sunil Sharma, Vanity Books International, New Delhi


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(2.2)

Elementary Computer Applications

Maximum Marks - 100 (Kham University Examinations)

Duration - Two Hours - 60

Question - Nine Marks - 10

The candidate has to pass in Theory and Practical Examinations separately. The theory paper for Elementary Computer Applications, (Computer) paper - 1 (common for B.A. / B.Sc. / B.Com. Part-I) be so set that it has 120 multiple choice questions (Bilingual) of 1/2 marks each. The question paper will be of duration of 2 hours. The examinees will have to give their answers on OMR Sheet only to be provided by the University whose evaluation will be done based on OMR Scanning Technology. Further the practical examination for this paper will be of 40 marks and its duration will be of 2 hours.

Unit - I

Introduction to information technology : Evolution and generation of computers, type of computers, micro , miny , mainframe and super computer. Architecture of a computer system : CPU , ALU, Memory (Ram, Rom families) cache memory, input - output devices, pointing devices.

Concept of Operating system, need types of operating systems. batch, single user, multi - processing , distributed and timeshared operating systems, introduction of Unix, Linux, Windows, Window NT. Programming languages Low level and high level languages, generation of 3 GL and 4 GL languages. Graphic user interfaces

Unit - II

Word Processing tool : Introduction , Creating, Saving, Copy, Move and Delete. Checking Spelling and Grammer. Page Layout, interface, toolbars, ruler, menu keyboard shortcut , editing, Text Formatting, insert headers and footers, Bullets and Numbering, Find and Replace etc. Insert Table and Picture . Macro, Mail Merge

Power Point : Creating and viewing a presentation, managing slide shows navigating through a presentation using hyperlinks, advanced navigation with action setting and action buttons. Organizing formats with Master Slides applying and modifying designs adding graphics , multimedia and special effects.

Unit - III

Electronic Spreadsheet : Worksheet types of create and open a worksheet. Entering data text numbers and formula in a worksheet inserting and deleting cells, cell formatting, inserting rows and columns in a worksheet formatting worksheets. Using various formula and inbuilt function. Use data worksheet using special tools like spell check and auto correct setup the page

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• Print, copy, paste, printing, Form, fill the data in the worksheet globally or selectively
• Create and edit worksheets using charts, multiple worksheets-concepts

Unit - IV

• Features, structure and functions of the Internet - Working with Internet Web Browser, World Wide Web, Uniform Resource Locator and Domain Names, Uses of Internet, Search for Information, Email, Chatting, Instant messenger services, News, Group, Teleconferencing, Video Conferencing, e-commerce and M-Commerce

• Manage an E-mail Account - E-mail Address, configure E-mail Account, log to an E-mail, Receive and send mails, sending files as attachments and Address Book, Downloading Files, online form filling, E-Services - E-Banking and E-Learning.

Unit - V

Social, Ethical and Legal Matters - Effects on the way we: Work Socialise, Operate in other areas, Cyber crime, Prevention of crime, Cyber law, Indian IT Act, Intellectual property, Software piracy, Copyright and Patent, Software licensing, Proprietary software, Free and Open source software

• Network Security - Risk assessment and security measures, Assets and types (data, applications, server and network), Security threats and attacks (passive, active), types and effects (e.g. Identity theft, denial of services, computer virus etc.), Security issues and security measures (Firewalls, Encryption/decryption) Prevention

Question Paper pattern for Main University Practical Examination

Max Marks: 40

Practical

The practical exercises will be designed to help in the understanding of concepts of computer and their utilization in the areas outlined in the theory syllabus. The emphasis should be on practical usage rather than on theoretical concepts only

The practical examination scheme should be as follows -

- Three Practical Exercise (including Attendance & Record performance) 30 marks
 - Operating system
 - MS Word
 - MS Excel
 - MS Power Point
 - Internet
- Viva-voce 10 marks

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3. COMPULSORY PAPER OF ENVIRONMENTAL STUDIES

B.Com. Part-I

Scheme of examination

Time	Min Marks	Max. Marks
3 hrs	36	100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark.

Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.

Unit.1: **The Multidisciplinary nature of environmental studies**

Definition, scope and importance- Relationship between Environmental Studies and other branches of science and social sciences.

Need for Environmental awareness, Environmental education in present day context.

Unit.2: **Natural Resources and Challenges**

- a. Natural resources and associated problems, Classification of resources: renewable resources, non renewable resources, classes of earth resources, resources regions: Definition and criteria, resource conservation.
- b. Forest resources: Use and over-exploitation, deforestation, case studies. Timber extraction, mining, dams and their effects on forest and tribal people.
- c. Water resources: Use and over-utilization of surface and groundwater, floods, drought conflicts over water, dams-benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture: fertilizer-pesticides problems, water logging, salinity, case studies.
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies.
- g. Land resources: Land as a resource, Land degradation man induced Landslides, soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable lifestyles.

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Unit 3: **Ecosystems, Concepts, Structure, Functions and Types**

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
 - c. Desert ecosystem with emphasis on Thar Desert
 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands

Unit 4: **Biodiversity and its conservation**

- Introduction –Definition, genetic, species and ecosystem diversity
- Biogeographically classification of India
- Value of biodiversity :consumptive use, productive use, social ethical., aesthetic and option values
- Biodiversity at global, National and local level
- India as a mega-diversity nation
- Hot-spot of biodiversity
- Threats to biodiversity: habitat loss, poaching of wildlife, man-wildlife conflicts
- Endangered, Threatened and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
- Red Data Book

Unit 5 : **Environmental Pollution and Control Measures**

Definition

- Causes, effects and control measures of:
 - a) Air Pollution
 - b) Water Pollution
 - c) Soil Pollution
 - d) Marine Pollution
 - e) Noise Pollution
 - f) Thermal Pollution
 - g) Nuclear Hazards
- Solid waste management” Causes, effects and control measures of urban and industrial wastes
- Role of an individual in prevention of pollution

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- Pollution case studies
- Disaster management: floods earthquake, cyclone and landslides

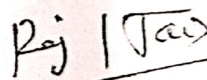
Unit 6 : **Social issues, Environment, Laws and Sustainability**

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies
- Environmental ethics: Issues and possible solution.
- Climate change, global warming, acid rain ozone layer depletion, nuclear accidents and holocaust. Case studies
- Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection Act.
- Air (Prevention and Control of Pollution) Act
- Wild life protection Act
- Forest Conservation Act
- Biological Diversity Act
- Issues involved in enforcement of environmental legislation
- Public Awareness.

Unit 7: **Human Population and the Environment**

- Population growth, variation among nations
- Population explosion-Family Welfare Programme
- Environment and Human health
- Human Rights
- Value Education
- HIV/AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and human health
- Case Studies

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B.COM. Part IInd (Pass Course)

Paper II Management

Unit I

Management: Concept, Nature, Principles, Importance and Process; Schools of Management Thought; MBO; Planning-Importance, Process and Components; Decision Making- Process, Types and Techniques.

Unit II-

Organisation-Goals, Structure, Importance, Process and Principles; Theories of Organisation; Environment and Organisation; Formal and Informal Organisation; Organisational Change and Development; Authority and Responsibility; Power and Authority; Sources of Authority; Delegation of Authority; Centralisation and Decentralisation; Span of Control.

Unit III-

Communication-Significance, Channels, Types, Process, Barriers and Remedies; Co-ordination and Co-operation; Co-ordination as an essence of management; Principles and Techniques of co-ordination; Obstacles in co-ordination; Direction-Essentials of effective co-ordination; Direction-Concept, Importance and Principles.

Unit IV-

Leadership-Functions, Qualities, Styles and Theories; Motivation-Importance, Types, Process and Techniques; Theories of Motivation (Maslow, Herzberg, McGregor); Sound Motivation System.

Unit V-

Control-Nature, Process, Techniques and Essentials of Effective Control; Business Process Re-engineering; TOM, Six Sigma.

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B.Com. Part III (Pass Course)

ABST Optional Paper IV

Cost and Management Audit

TIME: 3 hour
Min. Marks 36

Max. Marks-100

Note: There will be five question in all. The candidate will require to attempt all the questions selecting one question from each unit with an internal choice (either/or)

Unit – I

Cost Audit; Meaning, Evolution, Scope, Aspects, Objects, Nature, Advantages, Difference between Statutory Audit and Cost Audit, Application of Cost Accounting Standards, Cost Auditor and Professional Ethics.

Unit – II

Cost Audit Programme, Cost Accounting Records Rules, Verification of Cost Records and Reports.

Unit – III

Cost Audit Report and its Review, Cost Audit leading to other services: Productivity, Energy, Inventory, Environmental Pollution Control and Corporate Service, Peer Review.

Unit – IV

Management Audit: Meaning, Need, Difference between Statutory Audit and Management Audit, Purpose/objects, Scope, Aspects, Techniques and Procedures of Management Audit, Review of Management Functions: Production, Distribution, Development, Personnel and Industrial Relations, Research and Development, Cost Accounting and Finance and General Management Functions.

Unit – V

Review of Purchasing Operations, Review of Manufacturing Operations, Appraisal of Management Decisions, Corporate Social Audit.

Books Recommended:

1. Chaudhary D: Management Audit and Cost Audit,
2. Ramanathan: Cost and Management Audit,
3. Rose T.G.: Management Audit
4. Kamal Gupta: Contemporary Audit
5. Saxsena&Vasisth : Cost & Management Audit.

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3. COMPULSORY PAPER OF ENVIRONMENTAL STUDIES

B.Com. Part-I
(HONS)

Scheme of examination

Time	Min Marks	Max. Marks
3 hrs	36	100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark.

Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.

Unit.1: **The Multidisciplinary nature of environmental studies**

Definition, scope and importance- Relationship between Environmental Studies and other branches of science and social sciences.

Need for Environmental awareness, Environmental education in present day context.

Unit.2: **Natural Resources and Challenges**

- a. Natural resources and associated problems, Classification of resources: renewable resources, non renewable resources, classes of earth resources, resources regions: Definition and criteria, resource conservation.
- b. Forest resources: Use and over-exploitation, deforestation, case studies: Timber extraction, mining, dams and their effects on forest and tribal people.
- c. Water resources: Use and over-exploitation of surface and groundwater, floods, drought conflicts over water, dams benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, case studies.
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources: Case studies.
- g. Land resources: Land as a resource, and degradation man induced Landslides, soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
 - Equitable use of resources for sustainable lifestyles.

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3. COMPULSORY PAPER OF ENVIRONMENTAL STUDIES

B.Com. Part-I (HONS)

Scheme of examination

Time
3 hrs

Min Marks
36

Max. Marks
100

This paper will contain 100 multiple choice questions. Each question will carry 1 mark.

Students should be encouraged to visit places of Environmental Importance including Natural and Manmade Habitat.

Note:

1. The marks secured in this paper shall not be counted in awarding the division to a candidate.
2. The candidates will have to clear this compulsory paper in three chances.
3. Non-appearing or absence in the examination of compulsory paper will be counted as a chance.

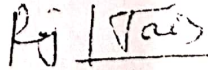
Unit.1: **The Multidisciplinary nature of environmental studies**

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- c. Water resources: Use and over-utilization of surface and groundwater, floods, drought conflicts over water, dams benefits and problems.
- d. Mineral resources: Use and exploitation, environmental effects of extracting and using mineral resources, case studies.
- e. Food resources: World food problems, changes caused by agriculture and overgrazing, effects of modern agriculture, fertilizer-pesticides problems, water logging, salinity, case studies.
- f. Energy resources: Growing energy need, renewable and nonrenewable energy sources, use of alternate energy sources. Case studies.
- g. Land resources: Land as a resource, Land degradation man induced Landslides, soil erosion and desertification.
 - Role of an individual in conservation of natural resources.
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Unit 3: Ecosystems, Concepts, Structure, Functions and Types

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
 - c. Desert ecosystem with emphasis on Thar Desert
 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands

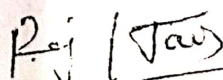
Unit 4: Biodiversity and its conservation

- Introduction –Definition, genetic, species and ecosystem diversity
- Biogeographically classification of India
- Value of biodiversity :consumptive use, productive use, social ethical., aesthetic and option values
- Biodiversity at global, National and local level.
- India as a mega-diversity nation
- Hot-spot of biodiversity
- Threats to biodiversity: habitat loss, poaching of wild life, man-wildlife conflicts
- Endangered, Threatened and endemic species of India
- Conservation of biodiversity: In-situ and Ex-situ conservation of biodiversity
- Red Data Book

Unit 5 : Environmental Pollution and Control Measures

Definition

- Causes, effects and control measures of:
 - a) Air Pollution
 - b) Water Pollution
 - c) Soil Pollution
 - d) Marine Pollution
 - e) Noise Pollution
 - f) Thermal Pollution
 - g) Nuclear Hazards
- Solid waste management” Causes, effects and control measures of urban and industrial wastes
- Role of an individual in prevention of pollution


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Unit 3: Ecosystems, Concepts, Structure, Functions and Types

- Concept of an ecosystem
- Structure and function of an ecosystem
- Producers, consumers and decomposers
- Energy flow in the ecosystem
- Ecological succession
- Food chains, food webs and ecological pyramids
- Introduction, types characteristics features, structure and function of the following ecosystem:
 - a. Forest ecosystem, Tropical Temperate and Alpine Ecosystem
 - b. Grassland ecosystem and Their Types
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 - d. Aquatic ecosystems(ponds, streams, lakes, rivers, oceans, estuaries) and Wet Lands

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Unit 5 : Environmental Pollution and Control Measures

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- Solid waste management” Causes, effects and control measures of urban and industrial wastes
- Role of an individual in prevention of pollution

- Pollution case studies
- Disaster management: floods earthquake, cyclone and landslides

Unit 6 : Social issues, Environment, Laws and Sustainability

- From Unsustainable to Sustainable development
- Urban problems related to energy
- Water conservation, rain water harvesting, watershed management
- Resettlement and rehabilitation of people; its problems and concerns. Case studies
- Environmental ethics: Issues and possible solution.
- Climate change, global warming, acid rain ozone layer depletion, nuclear accidents and holocaust. Case studies
- Wasteland reclamation.
- Consumerism and waste product.
- Environmental Protection Act.
- Air (Prevention and Control of Pollution) Act
- Wild life protection Act
- Forest Conservation Act
- Biological Diversity Act
- Issues involved in enforcement of environmental legislation
- Public Awareness.

Unit 7: Human Population and the Environment

- Population growth, variation among nations
- Population explosion-Family Welfare Programme
- Environment and Human health
- Human Rights
- Value Education
- HIV/AIDS
- Women and Child Welfare
- Role of Information Technology in Environment and human health
- Case Studies

Subsidiary Paper – II

ECONOMIC ENVIRONMENT IN RAJASTHAN

TIME: 3 hours
Min. Mark- 40

Max. Marks-100

Unit –I

Economic Environment- Meaning, Factors affecting Economic Environment, Basic Features of Indian Economy, Rajasthan Economy an Overview: Population, Area, Agriculture, Land Reforms, Crops, Animal Husbandry, Dairy Development, Mineral Resources, Occupational Structure and Human Resource Development; **Current Environmental Issues**

Unit –II

Planning in Rajasthan, Rajasthan Budget, Rural Development Schemes- Evaluation & Impact of Development Programmes; Human Development Index; Problems of Rajasthan Economy- Poverty and Unemployment, Panchayati Raj Institutions

Unit –III

Agriculture- Agriculture Policy of Rajasthan, Significance, New Agriculture Strategy, Agriculture Inputs, Food Management, Major Schemes for Agriculture Sector, Agriculture Finance, Agriculture Insurance, Agriculture Productivity, Commercialization of Agriculture, Minimum Support Price, Demand and Supply of Agriculture Products and their effect on General Price Level with reference to Rajasthan

Unit –IV

Infrastructure Development in Rajasthan: Road, Energy, Water Transport, **Social Infrastructure Education**, Health, Tourism Development in Rajasthan- Challenges and Prospects, Main Tourist Places in Rajasthan, Socio-Economic Impact of Tourism

Unit –V

Industrial Development in Rajasthan- Industrial Policy, Role of Cottage and Small Industries in Rajasthan, Credit Flow to Industrial Sector

Rural Finance- Concepts, Need and Importance, Main Source of Rural Finance in Rajasthan, Problems and Prospectus of Rural Finance

Books Recommended:

1. Rudradutt and Sundaram: Indian Economy
2. Mishra and Puri: Indian Economy
3. Budget Study, an overview of Rajasthan's Economy and other publication by Directorate, Economics and Statistics of Rajasthan
4. रुद्रदत्त एवं सुन्दरम : भारतीय अर्थव्यवस्था
5. ए.एन. अग्रवाल : भारतीय अर्थव्यवस्था
6. लक्ष्मीनारायण नाथसामका : भारतीय अर्थव्यवस्था
7. वी.एल. ओझा : राजस्थान की अर्थव्यवस्था

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B.Com. Part – III (Hons. Course)
Optional Paper – III
COST AND MANAGEMENT AUDIT

TIME: 3 Hour
Min. Marks 40

Max. Marks-100

Note: There will be five question in all. The candidate will require to attempt all the questions selecting one question from each unit with an internal choice (either/or)

Unit – I

Cost Audit; Meaning, Evolution, Scope, Aspects, Objects, Nature, Advantages, Difference between Statutory Audit and Cost Audit, Application of Cost Accounting Standards, Cost Auditor and Professional Ethics.

Unit – II

Cost Audit Programme, Cost Accounting Records Rules, Verification of Cost Records and Reports.

Unit – III

Cost Audit Report and its Review, Cost Audit leading to other services: Productivity, Energy, Inventory, Environmental Pollution Control and Corporate Service, Peer Review.

Unit – IV

Management Audit: Meaning, Need, Difference between Statutory Audit and Management Audit, Purpose/objects, Scope, Aspects, Techniques and Procedures of Management Audit, Review of Management Functions: Production, Distribution, Development, Personnel and Industrial Relations, Research and Development, Cost Accounting and Finance and General Management Functions.

Unit – V

Review of Purchasing Operations, Review of Manufacturing Operations, Appraisal of Management Decisions, Corporate Social Audit.

Books Recommended:

1. Chaudhary D: Management Audit and Cost Audit,
2. Ramanathan: Cost and Management Audit,
3. Rose T.G.: Management Audit
4. Kamal Gupta: Contemporary Audit
5. Saxsena&Vasisth : Cost & Management Audit.

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Elementary Computer Applications

Maximum Marks - 100 (Main University Examinations)

Theory - Max Marks - 60

Practical - Max Marks - 40

Each candidate has to pass in Theory and Practical Examinations separately

Question paper for Elementary Computer Applications, (Compulsory paper common for B.A. / B.Sc. / B.Com. Part-I) be so set that it has 120 multiple choice questions (Bilingual) of 1/2 marks each. The question paper will be of duration of 2 hours. The examinees will have to give their answers on OMR Sheet only to be provided by the University whose evaluation will be done based on OMR Scanning Technology. Further the practical examination for this paper will be of 40 marks and its duration will be of 2 hours.

Unit - I

Introduction to information technology : Evolution and generation of computers, type of computers, micro, mini, mainframe and super computer. Architecture of a computer system : CPU, ALU, Memory (Ram, Rom families) cache memory, input output devices, pointing devices.

Concept of Operating system, need types of operating systems. batch, single user, multi - processing, distributed and timeshared operating systems, introduction of Unix, Linux, Windows, Window NT. Programming languages Low level and high level languages, generation of Languages, 3 GL and 4 GL languages. Graphic user interfaces.

Unit - II

Word Processing tool : Introduction, Creating, Saving, Copy, Move and Delete. Checking Spelling and Grammar. Page Layout, interface, toolbars, ruler, menus keyboard shortcut, editing. Text Formatting, insert headers and footers. Bullets and Numbering. Find and Replace etc. Insert Table and Picture, Macro, Mail Merge

Power Point : Creating and viewing a presentation, managing slide shows navigating through a presentation using hyperlinks, advanced navigation with action setting and action buttons. Organizing formats with Master Slides applying and modifying designs adding graphics, multimedia and special effects.

Unit - III

Electronic Spreadsheet : Worksheet types of create and open a worksheet. Entering data text numbers and formula in a worksheet inserting and deleting cells, cell formatting, inserting rows and columns in a worksheet formatting worksheet. Using various formula and inbuilt function. Use date worksheet using special features like spell check and auto correct setup the page

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• Sorting and filtering data, printing, Formatting the data in the worksheet globally or selectively
• Creating charts, worksheets using charts, multiple worksheets concepts.

Unit - IV

• Features, functions and functions of the Internet. Working with Internet. Web Browsers, World Wide Web, Search engines, Resource Locator and Domain Names. Uses of Internet. Search for Information on the Internet. Chatting, Instant messenger services, News, Group, Teleconferencing, Video Conferencing, e-commerce and M-Commerce

• Mail and E-mail Account. E-mail Address, configure E-mail Account, log to an E-mail, Receive and send e-mails, sending files as attachments and Address Book, Downloading Files, online form filling, E-Services - E-Banking and E-Learning.

Unit - V

Social, Ethical and Legal Matters - Effects on the way we: Work Socialise, Operate in other areas. Cyber crime, Prevention of crime, Cyber law, Indian IT Act, Intellectual property, Software piracy, Copyright and Patent, Software licensing, Proprietary software, Free and Open source software

• Network security - Risk assessment and security measures, Assets and types (data, applications, servers and networks), Security threats and attacks (passive, active), types and effects (e.g. Identity theft, denial of services, computer virus etc.), Security issues and security measures (Firewalls, encryption, decryption) Prevention

Question Paper pattern for Main University Practical Examination

Max Marks: 40

Practical

The practical exercises will be designed to help in the understanding of concepts of computer and their utilization in the areas outlined in the theory syllabus. The emphasis should be on practical usage rather than on theoretical concepts only

The practical examination scheme should be as follows

- Three Practical Exercise (including Attendance & Record performance) 30 marks
 - Operating system
 - MS Word
 - MS Excel
 - MS Power Point
 - Internet
- Viva-voce 10 marks

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