To Be Substituted Bearing Some Number and Date

INDIRA GANDHI UNIVERSITY, MEERPUR, REWARI
(A State University Established under Haryana Act No. 29 of 2013)

No. : IGU/Acad./BOS/52/2019/............... Dated: ..................

NOTIFICATION

In continuation of this office letter No. 2432-2456 dated 25.10.2017, No. 283 dated 13.03.2018 and No. 1940-60 dated 18.09.2018, a combined list of Open Elective Papers offered by various Teaching Departments is notified for all concerned as under. The students of all PG programmes under CBCS (w.e.f. 2016-17) are required to study one open elective paper as per the Scheme of Examination of their course/programme. They may choose any one out of the following papers (excluding the courses offered by their own departments):

Even Semester:

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<tr>
<th>Sr. No.</th>
<th>Department</th>
<th>Name of Paper</th>
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<tbody>
<tr>
<td>1</td>
<td>Physics</td>
<td>Source of Energy – I</td>
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<tr>
<td>2</td>
<td>Commerce</td>
<td>Tax Planning for Individuals (MC.OEC-1)</td>
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<td>3</td>
<td>C.S.E.</td>
<td>Computer and Network Security</td>
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<td>4</td>
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<td>5</td>
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<td>6</td>
<td>Geography</td>
<td>Geography of India</td>
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<td>7</td>
<td>Environmental Science</td>
<td>Population Explosion &amp; Sustainable Development</td>
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Odd Semester:

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<th>Sr. No.</th>
<th>Department</th>
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<tr>
<td>1</td>
<td>Physics</td>
<td>Source of Energy – II</td>
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<td>2</td>
<td>C.S.E.</td>
<td>Introduction to Computer</td>
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<td>Botany</td>
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<td>4</td>
<td>Zoology</td>
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<td>5</td>
<td>Mathematics</td>
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<td>6</td>
<td>Management</td>
<td>Communication Skills</td>
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<td>7</td>
<td>Yoga</td>
<td>Fundamental of Yoga</td>
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<td>8</td>
<td>Environmental Science</td>
<td>Environmental Issues in India</td>
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<tr>
<td>9</td>
<td>Law</td>
<td>Fundamental Rights and Duties</td>
</tr>
<tr>
<td>10</td>
<td>English</td>
<td>Communication Skills</td>
</tr>
<tr>
<td>11</td>
<td>Geography</td>
<td>Fundamentals of Geography</td>
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<tr>
<td>12</td>
<td>Economics</td>
<td>Principals of Economics</td>
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<tr>
<td>13</td>
<td>Political Science</td>
<td>Human Rights in India</td>
</tr>
<tr>
<td>14</td>
<td>History</td>
<td>Brief History of India’s Freedom Struggle</td>
</tr>
</tbody>
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Deputy Registrar (Acad.)

Endst No. IGU/Acad./BOS/52/2019/........ Dated: 14/06/19

Copy of the above is forwarded to the followings for information and necessary action:

1. O.S.D. to Vice-Chancellor (for kind information of the Vice-Chancellor), I.G.University, Meerpur.
2. Controller of Examination, I.G.University, Meerpur.
3. Incharge University Website, I.G.University, Meerpur along with syllabus of aforesaid Open Elective Papers to upload the above notification on the University Website.
4. Superintendent, College Branch, I.G.University, Meerpur with request to circulate the above notification in all affiliated colleges of Rewari & Mahendergarh districts.

Deputy Registrar (Acad.)
Unit I

Introduction
Limitation of conventional energy sources, need and growth of alternative energy sources, basic scheme and application of direct energy conservation.

Solar Cells:

Unit II

Solar Thermal Energy:
Solar radiations, flat plate collectors and their materials, applications and performance, focusing of collectors and their materials, applications and performance; solar thermal power plants, thermal energy storage for solar heating and cooling, limitations.

Unit III

Geothermal Energy:
Resources of geothermal energy, thermodynamics of geo-thermal energy conversion-electrical conversion, non-electrical conversion, environmental consideration, estimates of geothermal power, nature of geothermal fields, advantages & disadvantages of geothermal energy forms, applications of geothermal energy. Geothermal power plant.

Fuel Cells:
Principle, working of various types of fuel cells, performance and limitations.

Unit IV

Wind Energy:
Wind power and its sources: Principle of working of Wind Energy, performance and limitations of energy conversion systems. Site selection, criteria, momentum theory, wind characteristics.

Text/References Books:
Tax Planning for Individuals
Open Elective Course
MC.OEC-1
Total Credit-3

Time-3 Hrs.
Total Marks-100
External Marks-80
Internal Marks-20

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions, selecting one question from each unit. All questions shall carry 16 marks each.


Unit-2
Income from Salary- Salary, Bonus, Commission, and Pension
Tax Liability on Perquisites- Rent Free House, Medical Facility, Education Facility, Use of Mobile, Laptop, Computer and Cars.
Retirement Benefits: Encashment of Earned Leave, Provident Fund, Gratuity, Encashment of Pension.

Unit-3: Taxable Income from House Property-Self Occupied House and Let out House Property. Deductions from House Property Income.
Income From Other Sources- Income from Interest, Dividend, Subletting, Royalty, Family Pension, Income of Insurance Agent.

Unit-4: Some Important Deductions from Gross Total Income- Deduction Under Section 80C, 80CCC, 80CCD, 80D, 80E, 80QBB, 80TTA, and 80U.
Filing of online Income Tax Returns/TR-1.

Suggested Readings:
1. Direct Taxes law & Practice - Dr. H.C.Mehrotra & Dr. S.P. Goyal, Sahitya Bhawan Publications, Agra.
2. Direct Taxes & Practice - Dr. V.K. Singhania Taxmann Publication.
3. Direct Taxes law & Practice - Dr. Bhagwat Prasad - Vishwa Prakashan, N.Delhi.

Indian Financial System
Unit I
Bio-mass:

Unit II
Ocean Thermal Energy Availability, theory and working principle, performance and limitations.
Wave and Tidal Wave:
Principle, working, performance and limitations.

Unit III
Petroleum and Coal energy
Petroleum, origin, composition, production, extraction, octane number, kerosene, LPG, lubricants natural gas, physical properties and uses of coal, generis of coal, molecular structure, determination of fixed carbon content, coal for generation of electricity, zero emission power plants, coal reserves and mining.

Unit IV
Nuclear Energy
Nucleus and its constituents, charge mass, isotopes, isobars, mass defect, binding energy and nuclear stability, radiation and nuclear reactions.
Nuclear fission, chain reaction, \( ^{235}_{92} \text{U} \), \( ^{238}_{92} \text{U} \), controlled nuclear fission and nuclear reactors, fast breeder reactor, nuclear fusion, condition for nuclear fusion reaction, Hydrogen bomb, Nuclear bomb

Text/References Books:
Open Elective
(Provided by the Deptt of Computer Science)

Paper MCA-Introduction to Computer
Max. Marks: 60.
Time: 3 Hrs.
Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 6 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 12 marks each.

Unit-I
Basic Concepts: What is computer, Characteristics of a Computer, Advantages of Computer, Limitations of Computer, Types of computer, Applications of computer, Data Representation, Hardware, firmware, Live-ware, Software: Relationship between hardware and software, System software: Operating system, Translators, Interpreter, Compiler, Assemblers, Linkers. Overview of operating system, Functions of operating system

Unit-II
Information Systems: Meaning, Need of an efficient Information system, Types of Information System. Information requirement for Planning, Coordination, and control for various levels in Business, Industry. Basic of data arrangement and access.
Introduction to database: Definition, Uses of databases, characteristics of database, DBMS, data independencies, difference between traditional file processing system and database approaches.

Unit-III
Net works: LAN, WAN. Wireless Network, Introduction networking, Importance of networking, Communication devices such as Modem, Features of Networking, Introduction to Internet: Meaning of Internet, Growth of Internet, Owner of Internet, Anatomy of Internet, Basic Internet Terminology, World Wide Web, Internet Protocols, Usage of Internet to society, Search Engines.

Unit-IV
Introduction to MS Word: Features of MS Word, component of word document window, creating and Printing a document, Formatting text and document, Mail Merge, Macro, Export and Import file, working with auto shapes, Adding pictures to a work document,
Introduction to MS Excel: Features of Excel, Creating a table, Formatting worksheet, Types of graph, Excel functions, Printing a worksheet, Managing and Organizing data. Power point presentation.

Chairperson
Department of Computer Science
& Engineering
Indira Gandhi University
Meerpur, Rewari
Department of Botany
(Open Elective Course for students of other Departments)
Semester-III
18BOT23OE: Plant Resource Utilization

Time: 3 hours
Theory Marks: 80
Internal Marks: 20
Credits: 3:0:0

Note: The question paper will consist of five Units. Each of the units I to IV will contain two questions and the students shall be asked to attempt one question from each. Unit-V shall be compulsory and will contain eight short answer type questions without any internal choice covering the entire syllabus.

Unit-I
Origin of Agriculture, World Centres of Primary diversity of domesticated plants: The Indo-Burma Centre, Plant Introductions and Secondary Centres. Origin, Distribution, Types, Botany, Cultivation, Harvesting and uses of Wheat and Rice. History, Botany, Breeding, Cultivation and uses of following fruits and vegetables: Mango, Apple, Banana, Potato, Alliums, Cabbage, Spinach and Tomato

Unit-II
General Account of the Spices: Ginger, Turmeric, Cinnamon, Clove, Umbelliferous spices and Peppers.
Beverage Plants: Source and general account of Tea and Coffee.
Legumes: Origin, Botany, Cultivation and uses of Pigeon pea, Chick pea, Cluster bean, French bean etc.
Medicinal Plants: Plants as sources of drugs, parts used, composition and uses.

Unit-III
Gums: Important commercial gums and their uses.
Tannins and Dyes: Sources and their uses.
Vegetable Oils and Fats: Distinction between fatty and essential oils. Drying (Soyabean and linseed), nondrying (Groundnut and Mustard oil) and Semi drying (Cotton seed and Sunflower oil) oils and their uses.
Fibres: Classification, uses, type of fibres - Soft fibres, Hard fibres, Surface fibres, Brush fibres and Braiding fibres.

Unit-IV
Wood and its Uses: Soft woods and hard woods, wood as fuel, construction material Unexploited plants of potential economic value; plants as a source of renewable energy. Genetic Resources and their conservation.
Books recommended


Department of Zoology
(Open Elective Course for students of other Departments)
Semester-III
18ZOO23OE: Wildlife and Conservation

Time : 3 hours
Theory Marks : 80
Internal Marks : 20
Credits : 3:0:0

Note: The question paper will consist of five Units. Each of the units I to IV will contain two questions and the students shall be asked to attempt one question from each. Unit-V shall be compulsory and will contain eight short answer type questions without any internal choice covering the entire syllabus.

Unit-I
Wildlife: Definition, significance and wildlife zones of the world and India, Protected Area Systems, Present status of National PA-Systems.

Unit-II
Theory and Practice of Biosphere Reserves of the world: Biosphere Reserves of India. Natural Heritage sites, Wildlife and livelihood; Wildlife and illegal trade & control.

Unit-III
Wildlife Damage, electric fences for wildlife damage control, Basic electric fence design, Trench design, line trapping, Mist netting, Rocket netting Chemical capture: Equipment, Drugs, Plan of operation.
Poaching: Its implications, conducting anti-poaching operations.

Unit-IV

Books recommended
1. Techniques for wildlife Census in India by W.A. Rogers (A field manual); Wildlife Institute of India, Dehradun.
5. Wildlife in India by V.B. Saharia, Natraj Publishers, Dehradun.
Department of Mathematics  
(Open Elective Course for students of other Departments)  
Semester-III  

17MAT23OE: Basics of Vedic Mathematics

Time: 3 hours  
Theory Marks: 80  
Internal Marks: 20  
Credits: 3:0:0

Note: The question paper will consist of five Sections. Each of the sections I to IV will contain two questions from each unit and the students shall be asked to attempt one question from each. Section-V shall be compulsory and will contain eight short answer type questions without any internal choice covering the entire syllabus.

Unit-I

- Introduction to Vedic Mathematics  
- Importance of Vedic Mathematics  
- Number system and its applications in Vedic Mathematics  
- Multiplication of any number by numbers containing digit 1 only  
- Multiplication of any number by numbers containing digit 9 only  
- Multiplication using Sutra-Urdhvatiryagbhyam

Unit-II

- Multiplication using base and sub-base method  
- Multiplication using Ekadhikena Sutra  
- Sum and Difference of Products  
- Square using Nikhilam Sutra  
- Square using Duplex Method  
- Addition and subtraction of squared and products numbers

Unit-III

- Cube using Nikhilam and Anurupya Sutra  
- Division using Dhwa-jank Method  
- Meru-prastar and their applications  
- Square root and cube root  
- Algebraic Multiplication
Unit-IV

- Addition and subtraction of algebraic products
- Square and square root of algebraic expressions
- Simultaneous simple equations
- Miscellaneous Simple equations
- Auxiliary fractions
- Triplets

Reference Books

COMMUNICATION SKILLS

PAPER CODE: MBA 304

Instructions for External Examiner: The question paper shall be divided in two sections. Section 'A' shall comprise of eight short answer type questions from whole of the syllabus carrying two marks each, which shall be compulsory. Answer to each question should not exceed 50 words normally. Section 'B' shall comprise 8 questions (2 questions from each unit). The students will be required to attempt four questions selecting one question from each unit. All questions will carry equal marks.

Unit -I
Communication Skills - Concept, characteristics and process of communication; 7C's of communication; listening skills, verbal communication, non-verbal communication, body language, art of meeting and greeting, making effective conversation

Unit -II
Presentation Skills - Difference between speech and presentation, handling of presentation audience questions, holding meetings, group discussion and interviews; structuring a presentation, delivering the presentation; situational presentation

Unit -III
Behavioral Skills - Positive altitude, self-management, problem solving skills, time management skills, anger management, coping skills, assertiveness team building skills

Unit -IV
Business Etiquette - Business dress and grooming, office courtesies, etiquette for special occasions, meeting etiquette, dining etiquette

Suggested Readings:
2. Fox, She, Business Etiquette for Dummies, Wiley Publishing inc.
4. Sanghi, Seema, Towards Personal Excellence, Response Books, New Delhi
Open Elective Paper
Foundation of Yoga
Paper code-OEPY-17
Max. Marks:60

Note:- 1. Question No. 1 will be compulsory and will carry 12 marks. It will comprise of 6 short answer type question of 2 marks each to be selected from the entire syllabus.

2. Four questions will be set from each unit, out of which the student will be required attempt one question from each unit. Questions will carry 12 marks each.

Unit -1

➢ Origin of Yoga, History, Definitions, Importance, Development of Yoga, aim and objectives of Yoga
➢ Introduction to streams of Yoga – Karam Yoga, Gyan Yoga, Bhakti Yoga
➢ Elements of Yoga and Yogic practices in Jainism and Buddhism

Unit – 2

➢ Definition of Hath Yoga, Concept of Matha, Time, Mithara, Success and Failure elements of Hath Yoga
➢ Concept, Definition, Benefits, Techniques, Precautions of Sodhan kriya, Asana, Pranayam and Meditation according to Gherand Samhita

Unit -3

➢ General introduction to Bhagvat gita, Patanjali Yoga Sutra
➢ Definition of Yoga in Bhagvat Gita and their relevance and scope, essentials of Bhagvat Gita
➢ Patanjali yog sutra -Yoga its meaning, purpose and nature of Yoga, chittavritis, kriya Yoga, concept of Ishvara and qualities of Ishvara theory of klesha, Ashtanga Yoga, Karma

Unit-4

➢ Biogarphy of Various Yogies - Maharishi Patanjali, Gorkashnath, Maharishi Dayanand, Swami Vivekanand, Maharishi Arvind and Aadi Shankaracharya
Practical Yoga

Max. Marks: 40

➢ Surya Namaskar

➢ Asana –
   A. Standing Posture – Tadasana, Trikonasana, Vrikshasna
   B. Sitting Posture – Patamasana, Paschimotanasana, Vajrasana, Ustrasana, Shashankasana
   C. Prone posture – Bhujangasana, Dhanurasana, Shalbhasana
   D. Supine Posture – Halasana, Sarvangasana, Setubandh, Chakrasana, Savasana

➢ Pranayama – Nadi Shodan, Bhastrika, Bharamri, Suryabhedi, Sheetkari

➢ Mudra – Jnana Mudra, Vayn Mudra, Vipritkarani Mudra, Shambhavi

➢ Bandh – Moolbandh, Uddiyan Bandh, Jalandhar Bandh.

➢ Meditation – Om Meditation

III (a) Each candidate will prepare a practical note book in which Total 10 Asanas, Two Bandh, Suryanamasker, Four Praanyanama long with photographs as per Class Teacher Advice from the above said complete syllabus.
M.Sc. Environmental Science: Semester -3
Environmental Issues in India
(Open Elective)

Course Code-17ENV211OEC

External Exam : 80 marks
Internal Assessment : 20 marks
Total : 100 marks
Time : 3 hrs.

UNIT-I

Environment: concept and components of environment; abiotic & biotic types of environment; Biodiversity and Biosphere Reserve.

UNIT-II

Environmental Hazards: Earthquakes, Volcanoes, Tsunamis, Floods, Droughts and famines- Causes, consequences and measures;

UNIT-III

Environmental Pollution- meaning, types, sources, causes and effects of environmental pollution with special reference to air pollution, water pollution & noise pollution. Environmental Legislation on air and water pollution in India.

UNIT-IV

Climate Change: Global warming, Green house effect; Ozone depletion; Acid Rain; Urban smog.

Note: Question No. 1 shall be compulsory and will contain six objective type questions covering entire syllabus. In addition, the question paper will have four units consisting of two questions each. Candidate(s) are required to attempt one question from each unit. All questions carry equal marks.

Recommended Readings:

SYLLABUS FOR OPEN ELECTIVE LAW

FUNDAMENTAL RIGHTS AND DUTIES

UNIT-I

1. Fundamental Rights- Meaning and concept of fundamental rights, definition nature and scope of fundamental rights.
2. Fundamental Rights and Indian Constitution.

UNIT-II

1. Right to Equality.
2. Right to freedom.
3. Right against Exploitation.
4. Right to Freedom of Religion

UNIT-III

2. Right to Constitutional Remedies.
3. Public Interest Litigation.
4. Social Activism.

UNIT-IV

1. Fundamental Duties- Meaning, Concept, Scope and Nature of Fundamental Duties.
2. Indian Constitution and Fundamental Duties.
3. Relationship between Fundamental rights and duties.
4. Enforcement of Fundamental Duties in Fundamental Rights.

Chairperson
Objectives:

1. To improve the basic skills of reading, writing, listening and speaking among students of any subject.
2. To prepare students to face interviews and group discussions.
3. To acquaint students with the contemporary, colloquial and idiomatic expressions in language.
4. To train them in practical letter writing and forms of business communication

Unit I: Understanding Communication Skills

i. What is communication, types of communication?
ii. Media of communication, channels of communication
iii. Barriers to effective communication.
iv. Role of communication skills in society

Unit II: Understanding figurative language

i. Idioms and phrases, making sentences with at least 50 contemporary idioms and phrases should be taught
ii. Agreement of subject and verb, correct usage of prepositions.
iii. Conditional sentences.
iv. New terms from Management, Information Technology and social media should be taught.

Unit III: Letter writing

i. Resume writing and job application
ii. Business letters (Orders, Inquiries, Sales letters, Complaints)
iii. Memos and replies to memos.
iv. Emails

Unit IV: Presentation Skills

i. How to effectively organize thoughts, research and data collection for speech/presentation, the use of logic and sequence, central idea.
ii. Oral presentation, diction, tone, clarity and body language.
iii. Power point presentation
iv. Time management and preparation, adaptation skills if changes occur.
M.Sc. Geography: Semester -3

FUNDAMENTALS OF GEOGRAPHY
Course Code-16GEOG301OEC
Exam Course Code -3069

External Exam : 80 marks
Internal Assessment : 20 marks
Total : 100 marks
Time : 3 hrs.

Unit-I

Solar System, Solar and Lunar Eclipses; Earth-shape, movements, formation of day/nights and seasons; location-latitude-longitude, longitude and time zones, International Date Line.

Unit-II

Interior of earth; volcanism and earthquakes; plate tectonics; weathering and erosion; Relief, Introduction to major landforms.

Unit-III

Weather and climate: factors affecting and distribution; composition and structure of atmosphere;

Atmospheric pressure and global winds; introduction to Monsoon.

Unit-IV

Relief of oceans; oceanic salinity; circulation of oceanic water; currents of Atlantic, Pacific and Indian Oceans.

Note: Question No. 1 shall be compulsory and will contain eight objective type questions covering entire syllabus. In addition, the question paper will have four units consisting of two questions each. Candidate(s) are required to attempt one question from each unit. All questions carry equal marks.

Recommended Readings

INDIRA GANDHI UNIVERSITY, MEERPU, REWARI

DEPARTMENT OF ECONOMICS
OPEN ELECTIVE COURSE
(To be offered to students of other Departments of the University)
Third Semester
PRINCIPLES OF ECONOMICS

Maximum Marks: 100
Time: 3 Hrs.

External Examination: 80
Internal Assessment: 20

Note: The question paper shall have five units. Each of the first four units will contain two questions and the students shall be asked to attempt one question from each unit. Unit five shall contain eight short answer type questions without any internal choice, covering entire syllabus.

Unit- I
Exploring the subject matter of economics: why study economics? Scope and Method of Economics; the Economic Problem: Scarcity and Choice; Positive and Normative economics; Microeconomics and Macroeconomics.

Unit-II
Demand and supply schedules; Law of demand and determinants; shifts of demand versus movements along a demand curve; Elasticity of demand: price, Income and cross elasticity; determinants of price elasticity; elasticity of demand and applications; consumer’s surplus.

Unit-III
Basic issues studied in macroeconomics; the role of government in the macro economy; National Income Accounting; Concepts of GDP and National Income; measurement of national income; nominal and real income and the circular flow; limitations of the GDP concept.

Unit- IV
The Simple macroeconomic (closed economy) models: Classical and Keynesian Model: Aggregate expenditure and equilibrium output—aggregate output and aggregate income; simple Keynesian model of income determination.

SUGGESTED READINGS
Maximum Marks: 100
Time: 3 Hrs.

External Examination: 80
Internal Assessment: 20

Note: The question paper shall have five units. The candidate shall attempt five questions in all. Question No.1 will be compulsory question will consist of eight short answer type questions of equal marks (i.e. 2 marks each) spread over the whole syllabus. The candidate shall attempt four more questions selecting at least one from each unit. Each question will carry 16 marks.

Unit: I

- The Concept of Human Rights: Western and Third World Context

Unit-II


Unit-III

- Human Rights: Issues and Challenges: Refugees, Minorities, Women and Children

Unit-IV

- Civil Society and Human Rights: Media, Public Opinion and Human Rights

SUGGESTED READINGS:

- Baxi, Upendra (ed.), The Right to be Human, Delhi, Lancer, 1987
- Human Rights in India- The Updated Amnesty International Reports, Delhi, Vistaar

Course LH 01: This will be a local history project in which every student will undertake a project work of 2 credits of his own choice in consultation with concerned faculty member and submit it for evaluation.

Open Elective 01: A Brief History of India's Freedom Struggle; Credits

Unit I:
Colonization of India,
Anti-Colonial Civilian, Tribal Uprisings(Sanyasi, Santhal, Munda, Kol etc)
Revolt of 1857 and Different Social Classes.
Peasant Movements. (Indigo, Pabna, Deccan)

Unit II:
Rise of Incipient Indian nationalism in Reform Movements
Trends in Swadeshi movement.

Unit III:
Ideologies and Programmes of Indian revolutionaries in India and abroad

Unit IV:
Gandhian Mass Movement: Phases of Mobilization: Non-Cooperation, Civil Disobedience and Quit India. Left Wing Politics(CSP, Kisan Sabha and Trade Unions).

Suggested Readings:
Paper MCA - Computer and Network Security
Max. Marks: 60.
Time: 3 Hrs.

Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 6 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 12 marks each.

Unit-I

Unit-II

Unit-III

Unit-IV
Privacy and ethical issues in networks, health issues in networked, Physical and Infrastructure Security, Security Auditing, Legal and Ethical Aspects, future of networked economy.
Note: The examiner shall set nine questions in all covering the whole syllabus. Question No.1 will be compulsory covering all the units and shall carry 8 small questions of two marks each. The rest of the eight questions will be set from all the four units. The examiner will set two questions from each unit out of which the candidate shall attempt four questions selecting one question from each unit. All questions shall carry 16 marks each.

**Unit-1:** Indian Financial System: A Brief Introduction, Reserve Bank of India and its functions, Credit Control by RBI, A Brief introduction of Bank Rate, Repo Rate, Reverse Repo, Marginal Standing Facility, CRR, SLR.
Indian Commercial Banks and their main functions-Types of credits allowed by bank, Types of Bank Accounts, Role of commercial banks in Economic Development.

**Unit-2:** Brief Introduction of Insurance, Types of Insurance-Life Insurance and General Insurance, Insurance Regulatory and Development Authority-IRDA.
Financial Literacy and Financial Inclusiveness, Introduction of some important Schemes regarding Financial Inclusiveness, Micro Financing, Mutual Funds, Ponzy Schemes, Guidelines for Investors to protect them from Frauds.

**Unit-3:** Brief introduction of Indian Capital Market-Primary and Secondary Market, BSE-SENSEX and NSE-NIFTY, Understanding the Change in SENSEX and NIFTY, Investment in Share Market, opening D-MAT account, Brief Introduction of SEBI.

**Unit-4:** Introduction of Indian Debt Market-Corporate Debt Market, PSU bonds market and Government security market.
A brief introduction of Financial Derivatives-Meaning and Types, Forward and Futures, Options, and Commodity Derivatives.
UNIT-I

1. India: Locational Setting and Geographical Expansion
2. Relief and Drainage Systems.
3. Climate, Soil and Natural Vegetation.
4. Regions of India

UNIT-II

5. The Peopling of India
6. Population: Distribution, Density and Growth
7. Population Composition: Ethnic and Socio-cultural Attributes (caste and tribes)
8. Unity in Diversity in India

Note:
The question paper will have five questions in all. Question No. 1 shall be compulsory and will contain eight short answer type questions (not exceeding 50 words each) covering entire syllabus. In addition, the question paper will have two units consisting of four questions from each unit of the syllabus. Candidate(s) are required to attempt two questions from each unit. All questions carry equal marks.

Recommended Readings:

M. Sc. Environmental Science: Semester - 4
POPULATION EXPLOSION & SUSTAINABLE DEVELOPMENT
Open Elective Course
Course Code-17EVS405OEC
Exam Course Code-405

End Semester Exam : 80 marks
Internal Assessment : 20 marks
Total : 100 marks
Time : 3 hrs.

UNIT - I
Growth and distribution of population in India; Concepts of over population, under population
and optimum population; Population as social capital; Population problems and policies.
Migration and associated problems; Causes and consequences of migration; Social well-being
and quality of life- Human Development Index.

UNIT - II
Population explosion and related issues: Energy crisis; food security; Resource degradation;
Social insecurity; Regional imbalances.
Environmental issues and crisis: Environmental pollution; Environmental degradation;
Deforestation, Desertification and Soil erosion.

UNIT - III
Sustainable Development: History and emergence of the concept of Sustainable Development;
Definitions and Parameters of Sustainable development; Global and regional dimensions of
Sustainable Development.
Concept of sustainable urban development; Sustainable Cities; Urban Sprawl; Urbanization:
problems and remedies; Slums and associated problems.

UNIT - IV
United Nations International Agreements for Sustainable Development: United Nations
Conference on the Human Environment (1972), The Rio Declaration on Environment and
Sustainable Development Goals (SDGs): SDG 11 - Sustainable Cities and Communities, and
SDG 13 - Climate Action.

Note:
The question paper will have nine questions in all. Question No. 1 shall be compulsory and will
contain eight short answer type questions (not exceeding 50 words each) covering entire
syllabus. In addition, the question paper will have four units consisting of two questions from
each unit of the syllabus. Candidate(s) are required to attempt one question from each unit. All
questions carry equal marks.

Recommended Readings:
PERSONALITY DEVELOPMENT

PAPER CODE: MBA 404

External Marks: 80
Internal Marks: 20
Time: 3 Hr

Instructions for External Examiner: The question paper shall be divided in two sections. Section 'A' shall comprise of eight short answer type questions from whole of the syllabus carrying two marks each, which shall be compulsory. Answer to each question should not exceed 50 words normally. Section 'B' shall comprise 8 questions (2 questions from each unit). The students will be required to attempt four questions selecting one question from each unit. All questions will carry equal marks.

Unit I
Discovering the Self - Knowing Oneself – preferences, tastes, likes dislikes and values – identification and meaning; Life script analysis, strokes and ego state analysis. Assessing the Self- Personality Types; Emotional Intelligence – Behavioural analysis and EQ mapping; right/left brain dependence; audio/visual/kinesthetic preferences; assessing stress levels and combating it, time management

Unit II
Relating to Others- Communication and active listening skills; Johari window analysis; Conflict management styles and networking Physical appearance, body language, voice communication style, content quality of communication, Enriched communication through sensory specific language. Business style and professional image-Dress code, guidelines for professional attire, ethics and moral judgment

Unit III
Personal Transformation:
Assertiveness training: Concept of assertiveness, components of behavior, assertive behavior skills-handling anger, depression, management by common sense, assertiveness in everyday commercial situation.

Unit IV
Presentation skills- Difference between speech and presentation, handling of presentation audience questions, holding meetings, group discussion and interviews; structuring a presentation, delivering the presentation; situational presentation

Suggested Reading:
3. I’m OK, You’re OK, Thomas Harris