

Department of Management Studies
Syllabus for Semester II Examinations (Regular), December 2020

ENVIRONMENT STUDIES – II

Unit 5: Natural Resources: Renewable and Non-renewable Resources

A. Land resources and land use change; Land degradation, soil erosion and desertification.

B. Deforestation: Causes and impacts due to mining, dam building on environment, forests, Biodiversity and tribal populations.

C. Disaster management: floods, earthquake, cyclones and landslides. Resettlement and Rehabilitation of project affected persons; case studies: **Deepwater Horizon oil spill, Asian Tsunami 2004, Uttarakhand disaster, Cyclone Fani, 2019.**

Water: Use and over-exploitation of surface and ground water, floods, droughts, conflicts over water (international & inter-state).

D. Energy resources: Renewable and non-renewable energy sources, use of alternate energy sources, growing energy needs, case studies: **Cochin airport, Muppandal wind farm, Narmada Bachao Andolan, Chipko movement.**

BUSINESS COMMUNICATION – II

- Common errors of English, Tense, Prepositions
- Idioms- Synonyms – Antonyms
- Identical words - / words confused
- Writing in professional language
- Meetings – Drafting of minutes, Definition of Agenda, Quorum, Minutes, Chairman; some basic general complaint letters.

BUSINESS MATHEMATICS & STATISTICS

Unit – 1: Basic concept of permutation and combination including restricted cases, Derivative of a function up to 2nd order (Trigonometric function excluded), partial derivative up to 2nd order, derivative by total differential, **Application of derivative:** slope measure, Rate measure, Increasing, decreasing function, Maximum – Minimum value, cost function, MR, MC, AC, AVC.

Unit – 2: Measures of central tendency: Mean (arithmetic mean, geometric mean, and harmonic mean), Merits, limitations and suitability of averages, relation between averages, median, mode, quartile, decile, percentile, Determination of mode from Histogram and partition values from ogive. **Measures of Dispersion:** Range, Quartile deviation, mean deviation, standard deviation and their coefficients, combined standard deviation for two groups. **Moments:** Raw moments, central moments, relation between raw and central moments.

Unit – 5: Probability theory: Basic terminologies, different definitions, total probability, conditional probability, compound probability and Bayes theorem. **Probability Distributions:** Random variable, idea of probability mass function and probability density function, concepts of expectation, variance, skewness and kurtosis, properties and applications of Binomial, Poisson, Normal distribution and Exponential distribution, Concept of Central limit theorem.

Unit – 6: Sampling Theory and Estimation: Meaning and significance, Parameter and Statistic, Standard error of a Statistic (sample mean, sample proportion), Sampling Distribution, Basic Concept of estimation. **Testing of Hypothesis:** Basic Terminologies, level of significance, hypothesis testing, Test of hypothesis concerning mean, proportion (large sample).

MANAGERIAL ECONOMICS

Introduction to Microeconomics - 10 Principles of economics

Scarcity and choice – Opportunity Cost, Production Possibility Frontier - Price system as an economic mechanism Objectives of Business Firm – Profit maximization and Revenue Maximisation – Cost Benefit Analysis – Concept of Economic Cost Vs Accounting Cost – Opportunity Cost etc.

Unit I: Demand Analysis:

Generalized demand function (6 factors) – Numerical Application - Direct Demand Function – Inverse demand function – Law of demand – exceptions
– Why demand slopes downward? Factors affecting demand for a product – Movement along Vs Shift of Demand – Individual and Market Demand – Elasticity of Demand – Price Elasticity of demand – percentage method –
– Point method – arc method – Factors affecting price elasticity- Income elasticity – Cross elasticity – Numerical applications.

Supply Analysis: Generalized supply function (6 factors) – Numerical Application – Law of supply – - Factors affecting supply of a product – Movement along Vs Shift of supply – Individual and Market supply – Elasticity of supply

Market equilibrium – Efficiency of ME – Productive and allocative efficiency – Measuring Producer surplus and Consumers' surplus – Impact of Demand Change on ME – Impact of Supply Change on ME- – Impact of simultaneous shift of demand and supply on ME- Government Intervention in ME – Impact of Price Ceiling – Price Flooring – Tax – Subsidy

Unit II: Theory of consumer behavior:

Cardinal vs. ordinal utility, Consumers Preference – Axioms of Choice – Completeness , Transitivity and Non-satiety Concept of indifference curves – Properties of IC – Proof of the properties
– Concept of budget line – Properties of BL- Shift and Rotation of BL - consumer equilibrium – Mathematical derivation of consumers equilibrium with two commodities (Optimization) – Price effect – Income effect and Substitution effect with diagrams for Normal and Inferior goods – Price Consumption Curve – ICC- Demand curve from PCC and ICC – Numerical Applications

Unit III: Theory of Production and Cost

- Production as value added activity, Production function,
- Production in the short run-law of variable proportions and identification of economic zone of production, Shape of TP_L , Derivation of AP_L, MP_L from TP_L ,
- Production with two variable inputs: isoquants and its properties, concept of iso-cost line (in detail explaining the shifts),
- Production Optimization (output maximization and cost minimization), Diagrammatic representation and numerical problems using $MP_L/MP_K = w / r$ (without using derivatives),
- Concept of Expansion path, Derivation of equation (simple numerical problems to be discussed),
- Returns to scale and Expansion path (simple numerical problems without any derivatives)
- Cost concepts: Accounting cost, economic cost, implicit cost and explicit cost
- Different concepts of Short run costs
- Total cost= total fixed cost + total variable cost, Average Cost=Average fixed cost + Average variable cost (Derivations and properties of all the cost curves)
- LAC as an outer envelope of SAVCs.
- Learning curve -Economies of scope

TAXATION AND TAX PLANNING

Unit I :Income tax concepts: Previous Year, Assessment Year, Person, Assessee, Income (including agricultural income), Residential Status and their incidence of tax, Gross Total Income, Total Income; Income which do not form part of total income, Tax Evasion, Tax Avoidance.

Unit II: Computation of Income under different heads

- Salary – Basics, Gratuity, Leave Encashment, Pension, Allowances, Provident Fund, Perquisites (valuation of accommodation, motor car, interest free loan, medical facilities, employee’s obligation met by employer).
- House Property
- Profits and Gains from Business or Profession – Sec. 29, Sec. 30, Sec. 32, Sec. 35, Sec. 35D, Sec. 36(1)(iii) and (vii), Sec. 37(1), Sec. 40 (a), Sec 40A (3), and Sec. 43B.
- Capital gains – Sec. 2(14), Sec. 2(29A), Sec. 2(42A), Sec. 2(47), Sec. 45(1), Sec. 45(2), Sec. 47, Sec. 48, Sec. 49(1), Sec. 50, Sec. 50C, Sec. 54, and Sec. 55.
- Income from Other Sources – Gift, Dividend, Family pension.

Unit III: Deductions from gross total income - Sec. 80C

Question Paper Pattern

Subjects	Full Marks	QP Pattern
Managerial Economics	80	Group A: 4 short questions @ 10 marks (Out of 8 questions)
Taxation and tax Planning		Group B: 2 long questions @ 20 marks (Out of 4 questions)
Business Math & Stat	80	Group A: 10 short questions @ 4 marks (Out of 15 questions) Group B: 8 long questions @ 5 marks (Out of 12 questions)
Environmental Studies – II	50	Group A :10 MCQ questions @ 2 marks (All questions are compulsory) Group B : 3 long questions @ 10 marks (Out of 6 questions)
Business Communication – II	50	Group A: 5 objective questions @ 5 marks (Out of 7 questions) Group B: 5 subjective questions* @ 5 marks (Out of 7 questions)