

REVISED SYLLABUS 2022

DEPARTMENTAL PROMOTION EXAMINATION FROM SENIOR RESEARCH OFFICER TO DIRECTOR (ECONOMICS)

PAPER-I

CURRENT AFFAIRS & RULES & REGULATIONS

(Note: Passing in each part is mandatory to clear paper-1)

100 marks (Pass marks 47)

Part-I

Current Affairs

33 marks

(Pass marks 40%)

Current Affairs paper will be set from leading issues published in the newspaper for the last 3 months. The following books may be consulted.

- Monthly Current Affairs Digest by Tariq Mahmood Dogar
- Monthly Current Affairs Digest by Dr. Safdar Mahmood
- Any other Current Affairs Digest

Part-II

Rules and Regulations (Books allowed)

67 marks

(Pass marks 50%)

- The Pakistan WAPDA Employees (E&D) Rules, 1978
- The Pakistan WAPDA Employees (Retirement) Rules, 1979
- The Pakistan WAPDA Leave Rules for WAPDA Employees 1982
- The Pakistan WAPDA TA Rules 1982
- WAPDA Act
- Conduct Rules
- Medical Attendance Rules.

Reference Books

WAPDA Manual of General Rules amended upto 2014 (including addendums)

PAPER-II TECHNICAL

100 Marks

(Pass marks 50)

Macro Economics: National accounting, Gross Domestic Product (GDP), Gross National Project (GNP), Net National Product (NNP), Personal income, Disposal of personal income. Concept of per capita income, Concept of economic growth, Deficit budget and deficit financing, Balance of payment and foreign loans, Net value of production, Crop budget, Farm Income, Partial budget concept and use, Stream of benefits and cost, Time value of money and concepts regarding discount tables, Discounting factor formula, Compounding factors formula, Decision indicators-Definition and concept, Financial and economic internal rate of return, Benefit cost ratio, Net present value (NVP) concept, Financial discount rate, Economic discount rate, Opportunity cost of capital, Accept/reject decision for investment in a project, Mutually exclusive projects, Ranking criteria for mutually exclusive projects, Minimum cost test and cross over discount rate and Sensitivity analysis and risk analysis

Aggregate Project Benefits: Financial, Economic, Present benefit, Future without project benefits, Future with project, Incremental benefits, Project costs, Financial cost-salient differences, Economic cost, Cost escalation during construction and methods to calculate (foreign/local), Interest during construction (IDC) and methods to calculate the (IDC foreign and local components), Taxes and duties and their treatment in financial and economic analysis, Indirect taxes and their relationship with cost recovery in agri. Projects, Concept of equilibrium level of income and output.

Director Daams) WARDA 323-WAPDA House, Lahore 12

4

) sej

Applied Economics: Financial analysis, Economic analysis, Social analysis, Financial Prices, Marketing margins, farm gate prices, harvest price, support prices, Marketing channels and market linkages, Economic prices, shadow prices, real prices, Constant prices and current prices, Inflation, impact on project cost, Measurement of domestic and foreign inflation, Domestic GDP and price index number concept and use, Gross value of Production, Farm Cost, Fixed Costs, Variable Cost, Marginal Cost, Gross margins, Cost Recovery, Cost per unit and method to calculate, Cost allocation in multi-objective projects, concept and methods, Depreciation and salvage value, Replacement cost, O&M Cost, Construction period, Project life.

Concept of Conversion Factors in Economic Analysis: Concept of conversion factors in economic analysis, Standard conversion factor, concept formulae and use, Transportation conversion factor, concept and use, Power conversion factor, concept and use, Exchange rates (i) Interbank (ii) Open Market rate.

Devaluation: Impact on project costs and repayment of foreign component of cost, Impact on import and exports and Impact on various income groups.

Bruno Test, Concept and Use: Concept and use of PCs and planning progress in Pakistan PC-I, PC-II, PC-IV and PC-V

Methods of project appraisal of Hydropower Project: Development of thermal equivalent - General, Capacity cost, capacity cost of peaking plant, capacity cost of base load plant, fuel price and operating cost – Long run marginal cost, Introduction, Definition of Marginal Cost, Marginal Capacity cost of Generation and Marginal Energy cost (peak and Off peak).

Computer (Information Technology): Types of computer, computer hardware and software, types of memory and functions, operating systems, input/out and storage devices, types of computer languages, programming and functions of compiler, main features of utility of MS Word, MS Excel, MS Power Point, Internet and E-mail.

Reference Books

- Manual for Development Project Revised Project Wing, P&D Division, GOP, Islamabad May 1997.
- Price Theory and Resource Allocation by Richard H, Leftwhiich 1966.
- Evaluation of Agri, Projects by J.P. Gittinger 1982.
- A Text Book of Economics Theory by Stonier and Hague 1980
- A Text Book of Statistic Punjab Text Book Board, Lahore by Faqir Muhammad, Professor and Controller Examination, Allama Iqbal Open University, Islamabad, Mr. Amjad Mahmood, Lecturer Punjab College, Lahore and Professor Muhammad Rauf Ch. Government College, Gujranwala.
- Econometric Analysis 5th ed. By William H. Greene.
- Introductions to Econometrics by James H. Stock, Mark W. Watson.
- Feasibility Study of any Hydropower Project.
- Microsoft Office 2007/2010, by Gary B. Shelly, Thomas J. Cashman and Misty E. Vermaat.
- Window 7 Step by Step by Joan Lambert and Joyce Cox (Available Online).

NOTE (1) One question from Computer (Information Technology) is compulsory to be included in Paper-II (Technical).

NOTE (2): The paper will be 50% objective and 50% subjective.

Director (Exams) WAPDA 323-WAPDA House, Lahore 13

Dey