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## REVISED SYLLABUS 2022

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

**PAPER-I CURRENT AFFAIRS & RULES & REGULATIONS** **100 marks**  
(Note: Passing in each part is mandatory to clear paper-1) (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)

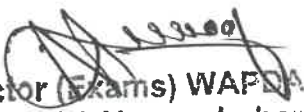
**PAPER-II TECHNICAL** **100 Marks**  
(Pass marks 50)

**Economic Evaluation and Ranking:** Selection of opportunity cost of capital, Streams, of Benefits, Cash flow, Discounting of costs and Benefits, Economic Evaluation, BC Ratio, EIRR, NK Ratio, Financial Evaluation, EIRR Repayment of Loan and Cost Recovery, Development Cost per unit of Water (F.A) or Acre Vs Income per Acre and Project Ranking through Estimation.

**Methods of project appraisal of Hydropower Projects:** Consumer surplus, general concept, domestic consumer, Agriculture consumer and small industrial units – 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).

Note: Bruno test, concept and use: Concept and use of PCs and planning progress of Pakistan PC-I, PC-II, PC-III, PC-IV and PC-V.

**Computer (Information Technology):** Introduction to Computer System, M.S. Word and M.S. Office: Characteristic of computer, types of computer, computer hardware and software, types of memory and functions, operating systems, input/out and storage devices, types of computer languages,

  
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programming and functions of compiler, main features of utility of MS Word, MS Excel, MS Power Point, Internet and E-mail.

#### Reference Books

- A Text Book of Economics Theory by Stonier and Hague.
- Econometric Analysis 5<sup>th</sup> 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.

  
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