



## Secured Question Paper Delivery System (QPDS)

### Preamble

Every academic follows conventional procedures in the conduct of examinations. The processes include sourcing, selecting, setting, printing, and distributing the question papers to various examination centers spread miles across. The challenge in this process involves human intervention, thereby making it prone to insecurity of activities at different stages.

Our **Secured Question Paper Delivery System (QPDS)** overcomes these challenges. The solution is rugged & secured and based on the latest ICT & digital technologies. The solution follows a well-defined workflow methodologies with a granular access controls, encryption, leakage monitoring and with real-time tracking of the entire QPDS processes. Further our solution follows multi-layer security algorithms, controlled through a centralized dashboard available on an exclusive web portal, with a complete transparency of the process and its activities.

Major Advantages is the system provides a complete transparency and tracking at each stage; No wastage of paper; Reuse of infrastructure for other examinations; and, Scope for add-on and refinements

### Secured Question Paper Delivery System (QPDS) aims at:

- Hassle free electronic distribution of question papers in a secured manner to examination venues regardless of location.
- Largely avoids manual intervention.
- Bringing a transformation in the examination process

### About Proposed System

- Adopts latest technology, and strictly follows customizable Work Flow Methodologies.
- Highly secured environment - (adopts encryption & decryption technologies & its processes)
- Access to the entire system is restricted through static IP validation
- Protected for management only by the authorized officials Examination centers
- Tamper proof and supposedly tackles the menace of question paper leakage.
- Various MIS Reports at every level of users.

### How Secured the Proposed System

- The entire infrastructure is based on - MPLS VPN
- Follows encryption & decryption technologies
- Fully protected with Firewall
- Follows secure intranet concepts
- Only authorized officials can download the question paper



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- Generate session-wise report of the complete login/download activity for all the users and should be able to send it to registered email id of the University Official.

### Risk Mitigation

The system is facilitated to access through

- Data Card
- Email
- Fax
- Support through dedicated desks at QPDS agency
- Secondary web server for risk mitigation

### Infrastructure Requirement

- Our Application Software
- Desktop computers 2 to 3 nos.
- Internet connection. (or) Internet Leased Line 1:1 / 32 or 64 mbps, ILL connections preferably from 2 ISP's (or) MPLS Virtual Private Network
- High End Server 2 units with SSL certified with minimum 2048 Bit encryption at Headquarters
- System Software.
- Firewall & anti-virus software
- Storage device for Backup
- LAN environment
- Fax
- UPS for the entire IT infra
- Fire Safety devices
- Surveillance system
- Air-conditioned environment .
- High Speed Printers with UPS support
- Copier machine - Xerox
- Technical Support Staff
- Required Stationary
- Required consumables like Toner cartridge etc.,