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| <b>Seat<br/>No.</b> |  |
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**M.B.A. (Part - I) ( Sem. –II) Examination, 2010**  
**MANAGEMENT INFORMATION SYSTEM (Paper – XIII)**

Day and Date : Tuesday, 30-11-2010  
Time: 10.30 a.m. to 1.30 p.m.

Total Marks : 70

**Instructions :** 1) *Qu.1 and Qu. 5 is compulsory*  
2) *Attempt any two questions from question Nos. 2 to 4.*  
3) *Figures to the right indicate full marks.*

1. Vishal Pumps Ltd., is a leading manufacturer of Industrial Pumps, specializing in pumps for chemical industries. The organization employs 54800 employees. With manufacturing facility near a major metropolis, the company has marketing offices in several cities. There are 14 departments in which all the employees are distributed . The employees in Sales and Services network are distributed across various cities where company has marketing offices. Whenever there is a vacancy, the personnel Department releases Appointment Advertisements in news papers calling for applications from interested candidates.

Recently, an advertisement was released for a Metallurgist having master's degree in Engineering and a minimum of 10 years of experience in design activity relating to pumps. The knowledge of French Language was a necessity as the company has technical collaboration with a France Firm.

While the process of scanning the response and calling the candidates for interview was in progress, some existing employees approached the Personal Manager claiming that the in-house talent had been neglected.

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There were several employees, working in different positions in different departments who were meeting the requirements of the job. The question posed by the employees was “Why the company is seeking someone from outside when someone from within the organization can be promoted?” This question set the Personnel Manager thinking. It was not his intension to get someone from outside. It just happened that Personnel Department did not have the information about employees that could be easily accessed for use in such situations.

### Questions :

As Information Specialist, propose a system solution that would provide appropriate information support to the Personnel Manager about employees.

- 1) Suggest System development approach with justification.
- 2) Suggest database design, Input design and putput design for Information System. 20
2. a) What is MIS? Explain need and characteristics of MIS. 7  
b) What is data model? Explain relational data model with example. 7
3. a) State and explain different types of information systems used in business organizations. 8  
b) Explain major problem areas in information system development and implementation. 7
4. a) Discuss various problems in traditional file system. 8  
b) Explain the role Data Base Administrator. 7
5. Write short notes on (**any four**) : 20
  - 1) DSS
  - 2) Hierarchical data model
  - 3) Financial Information System
  - 4) SDLC

5) Distributed Databases.

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