(Following Paper ID and Roll No. to be filled in your Answer Book)								
PAPER ID: 0187	Roll No.			- 3				

B. Tech.

(SEM. VIII) THEORY EXAMINATION 2010-11 IT INFRASTRUCTURE MANAGEMENT

Time: 3 Hours Total Marks: 100

Note: Attempt all Questions. All questions carry equal marks.

- 1. Attempt any four parts of the following: (5×4=20)
 - (a) Briefly discuss about the Evolutions of computer system?
 - (b) How stored program concepts and Von-Neumann architecture of computers are related? What was its impact on developments of computers?
 - (c) Explain client-server architecture in light of 2-tier and 3-tier client server architectures.
 - (d) What is super computing? Explain with suitable example.
 - (e) Explain the following:
 - (i) High availability clusters.
 - (ii) High performance computing
 - (iii) Load balancing clusters.
 - (f) What is the meaning of Information Technology (IT)? Also discuss the impact of information technologies in the society.

- 2. Attempt any four parts of the following: $(5\times4=20)$
 - (a) Define the term IT Infrastructure. What are the various components which are considered under IT Infrastructure?
 - (b) Why it is necessary to have IT Infrastructure Management activity? Discuss various challenges in IT Infrastructure Management.
 - (c) Explain Information Technology Infrastructure Library (ITIL)? Discuss various process involved in ITIL?
 - (d) Explain various sub-processes involved in service delivery process and service support process.
 - (e) Explain the following:
 - (a) People-Process-Technology Approach.
 - (b) Strategy-Tactics-Operations Approach
 - (f) Discuss any two design models:
 - (i) Business activities based model
 - (ii) Management activities based model
 - (iii) Hubrid models.
- 3. Attempt any two parts of the following: $(10 \times 2=20)$
 - (a) (i) What are the objectives of the service level management? How does it helps service level management processes?
 - (ii) Discuss the following approaches of service level management processes:
 - (1) Linear Approach
 - (2) Cyclic Approach

- (b) (i) What are the important cost factors involved in the implementation of service level management in an organization?
 - (ii) Define time value of money. What is its role in project investment appraisal activity?
- (c) (i) What is capacity management? What are the advantages and Disadvantages of capacity management.
 - (ii) Discuss the relationship of availability management with the capacity management and IT service continuity management.
- 4. Attempt any two parts of the following: $(10\times2=20)$
 - (a) What are the main functions of configuration management? How does it help in providing better services to customers?
 - (b) Discuss problem management. What are the various steps involved in problem management process?
 - (c) There is a close relationship among change management, configuration management and release management.

 Justify.
- 5. Attempt any **two** parts of the following: $(10 \times 2 = 20)$
 - (a) Explain the activities involved in DRP (Disaster Recovery Plan)? Give various methods of testing DRP.

- (b) Describe different types of Malicious codes. Are they really harmful to the computers? Comment.
- (c) What is the Virus? How do you identify whether your system or some files are affected with the virus? How do you characterize the type of Virus?