Nepal College of Information Technology

**Assessment**

Spring 2012

Program : IT Time : 3 hrs

Semester : (VIII) FM : 100

Subject : Client Server Architecture PM : 50

* *Candidates are requested to give their answer as far as practicable in their own words.*
* *The figure in the margin indicates the full marks*
* ***Attempt ALL question***

1. (a). Define Client Server Architecture? Discuss the significance of 3-tier architecture with a suitable example. [8]

(b). Why Interface Definition Language (IDL) plays a vital role in COM and CORBA? Discuss with a suitable example. [7]

2. (a). Discuss the architecture of Object Model Architecture with a suitable diagram. [8]

(b). How the concepts of Proxies, Stubs and Skeleton are deployed in COM and CORBA. Why marshalling and unmarshalling is required ? [7]

3. (a). Explain the role of Object Handles and Object destruction in COM and CORBA with a suitable example. [7]

(b). “*To manage properly, an Enterprise should be partitioned into smaller and manageable pieces called domains*”. Justify with a suitable example [8]

4. (a). Why intangiblesplays a vital role in assessment strategy while choosing COM and CORBA? [8]

(b) What is the role of distributed object transaction? Discuss the general approaches for supporting legacy systems. [7]

5. (a). Discuss the signifance of Legacy System support in Distributed Computing architecture. [7]

(b). *You are appointed as a Client Server Architect to implement Client Server System of Pokhara University*. Discuss your role that how you are going to implement new System with reference to Enterprise Client/Server Architecture. [8]

6. (a). Explain the need of COM/CORBA internetworking specification in COM/CORBA bridging [8]

(b). Enumerate the various services and facilities expected from an enterprise application server [7]

7. Write Short Notes (ANY Two) [5 x 2 =10]

a). Distributed Security

b). COM Client Approach

c). Vertical and Horizontal Strategy